

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:52:29 ; Search time 40 Seconds

(without alignments)
252.353 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MPLSPGLLLLLSGATATAA.....ARRDRMPCRFNFWKTFSSCK 105

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283224 segs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR_73:*
2: PIR1:*
3: PIR2:*
4: PIR3:*
5: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	JC5414	cortistatin-like p
2	295	53.2	112	S67489	cortistatin precu
3	112.5	20.3	103	JC6167	somatostatin-14 p
4	99	17.9	116	RIBOS1	somatostatin precu
5	95	17.1	116	RIBOS1	somatostatin precu
6	92.5	16.7	116	RIBOS1	somatostatin precu
7	91.5	16.5	121	S20630	somatostatin precu
8	89	16.1	116	RIBOS1	somatostatin I pre
9	89	16.1	116	RIBOS1	somatostatin I pre
10	89	16.1	116	RIBOS1	somatostatin I pre
11	87	15.7	92	RIBOS1	somatostatin I pre
12	86	15.5	115	JC6166	somatostatin-14 p
13	85	15.3	34	A32271	somatostatin-14 p
14	84.5	15.3	114	RIBOS1	somatostatin-14 p
15	83	15.0	114	I50798	hypothetical prote
16	80	14.4	447	AR3459	hypothetical prote
17	80	14.4	447	AR3459	hypothetical prote
18	79.5	14.4	73	S00169	somatostatin II pr
19	79	14.3	37	A32000	somatostatin II pr
20	78	14.1	28	A61322	somatostatin-28 -
21	77	13.9	665	AH0411	ferrichrome transp
22	76	13.7	115	I51064	somatostatin II pr
23	75	13.7	1051	T48933	MD repeat domain p
24	75	13.5	125	RIBOS2	somatostatin II pr
25	74	13.4	2055	T00093	hypothetical prote
26	71.5	12.9	253	S61499	transcription acti
27	71	12.8	228	A31403	membrane protein B
28	70	12.6	14	C60414	somatostatin - sli
29	70	12.6	14	B60842	somatostatin I - C

30	70	12.6	14	2	A60840
31	70	12.6	14	2	S00172
32	70	12.6	1801	2	T26774
33	69.5	12.5	882	2	H83754
34	69	12.5	252	2	AD2716
35	69	12.5	262	2	G97497
36	69	12.5	535	1	T18864
37	69	12.5	664	2	D83231
38	68.5	12.4	74	2	S00166
39	68.5	12.4	1493	2	T10757
40	68	12.3	862	2	H82182
41	68	12.3	950	2	A82986
42	67.5	12.2	374	2	F87280
43	67	12.1	212	2	T44591
44	67	12.1	462	2	JC3462
45	66.5	12.0	233	2	T36942

ALIGNMENTS

RESULT 1

JC5414
cortistatin-like protein precursor - human
C:Species: Homo sapiens (man)
C:Date: 10-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 20-Jun-2000

C:Accession: JC5414

R:Rukusumi, S.; Kitada, C.; Takekawa, S.; Kizawa, H.; Sakamoto, J.; Miyamoto, M.; Hin

Biochem. Biophys. Res. Commun. 232, 157-163, 1997

A:Title: Identification and characterization of a novel human cortistatin-like peptid

A:Reference number: JC5414; MUID:97236300; PMID:9125122

A:Accession: JC5414

A:Molecule type: mRNA

A:Residues: 1-105 <FUK>

A:Cross-References: DBJ:AB000263; NID:q2055231; PIDN:BA19770.1; PID:q2055232

A:Experimental source: brain

C:Comment: This protein binds to somatostatin receptors on a pituitary GH4 cell and i

C:Superfamily: somatostatin

F:1-20/Domain: signal sequence #status predicted <SIG>

F:97-100/Region: somatostatin receptor binding #status predicted

Query Match 100.0%; Score 554; DB 2; Length 105;
Best Local Similarity 100.0%; Pred. No. 9.1e-51;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRSEHMOEAAGIRKSSLLFTLAWFWTSCA 60

DB 1 MPLSPGLLLLSGATATAALPLEGGPTGRSEHMOEAAGIRKSSLLFTLAWFWTSCA 60

QY 61 SAGPLIGEARFARROGAPPOOSARDRMPCRFNFWKTFSSCK 105

DB 61 SAGPLIGEARFARROGAPPOOSARDRMPCRFNFWKTFSSCK 105

RESULT 2

S67489
cortistatin precursor - rat

C:Species: Rattus norvegicus (Norway rat)

C:Date: 28-Oct-1996 #sequence_revision 27-Feb-1997 #text_change 16-Jul-1999

C:Accession: S67489

R:de Lecea, L.; Criado, J.R.; Prospero-Garcia, O.; Gautvik, K.M.; Schweitzer, P.; Dan

Nature 381, 242-245, 1996

A:Title: A cortical neuropeptide with neuronal depressant and sleep-modulating proper

A:Reference number: S67489; MUID:96208649; PMID:8622677

A:Accession: S67489

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-112

A:Cross-References: EMBL:U51919; NID:q1335909; PIDN:AC052585.1; PID:q1335910

C:Superfamily: somatostatin

Query Match 53.2%; Score 295; DB 2; Length 112;
Best Local Similarity 55.8%; Pred. No. 1.1e-23;

	Matches	58;	Conservative	13;	Mismatches	31;	Indels	2;	Gaps	1;
QY	2	P L S P G L L L L L L S G A T A T A A L P L E G G P G R D S E H N O E A A G I R K S S L L T L A M W E M T S Q A S	61							
Db	11	P S A L S L L L L L L L S G I A S A L P L E S G P I Q D S - - V O D A G G R G I T L T L L A M H N E M A S D S	68							
QY	62	A G P L I G E A R K V A R R O G E G A P P Q O S A R K D R M C R N F F M K T E S S C K	105							
Db	69	S S T A F E G G T P E L S K R O E R P L Q D P P H R K K C K N E F M W T E S S C K	112							

RESULT 3

somatostatin-14 [Pro2, Met13] precursor - laughing frog
 N:Alternate names: PSS2 protein
 C:Species: *Rana ridibunda* (laughing frog)
 C:Date: 11-Apr-1997 #sequence_revision 09-May-1997 #text_change 16-Jul-1999
 C:Accession: J06167
 R:ToStylint, H.; Lihmann, I.; Buchardes, C.; Vieau, D.; Coulouarn, Y.; Fournier, A.; CC
 Pro. Natl. Acad. Sci. U.S.A. 93, 12605-12610, 1996
 A:Title:Occurrence of two somatostatin variants in the frog brain: Characterization of
 A:Contents: brain
 A:Accession: J06167
 A:Molecule type: mRNA
 A:Residues: 1-103 <GB>
 A:Cross-references: NID:g1890652; PIDN:AAC60094.1; PID:g1890653
 C:Comment: This protein acts both as neurotransmitter/neuromodulator and a hormone.
 C:Genetics:
 A:Gene: ps92
 C:Superfamily: somatostatin
 C:Keywords: brain; hormone

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20.3%  Score 112.5; DB 2; Length 103;
Best Local Similarity 32.4%; Pred. No. 0.00011;
Matches 35; Conservative 13; Mismatches 37; Indels 23; Gaps 4;

OY 7 LLLLLGGATTALPLEGGPTGRDSEHMOAGIRKSLTLTFLAWFEMWSSQASAGLI 66
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 9 LLLLLANGARLSPDDNNRITTKRN-----QDLNLIQDLILKILSGM-----TDSKESNLV 60
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

OY 67 GGEARVYARROGAP-----POOSARRDRPCNCFNFWKTSSC 104
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 61 -----EERNVYDPDEPKRIPSVKFFRLSLERKAPCNCFNFWKTTC 103
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

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RESULT 4

Somatostatin precursor - bovine
 A:Alternate names: preprosomatostatin
 C:Contains: somatostatin 14 (SS-14); somatostatin 28 (SS-28)
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 06-Mar-1992 #sequence_revision 31-Jan-1997 #text_change 18-Jun-1999
 C:Accession: A40929
 R:Su, C.J.; White, J.W.; Li, W.H.; Luo, C.C.; Frazier, M.L.; Saunders, G.F.; Chan, L.
 Mol. Endocrinol. 2, 209-216, 1988
 A:Title: Structure and evolution of somatostatin genes.
 A:Reference number: A40929; MUID:88288237; PMID:2859837
 A:Accession: A40929
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-116 <SVU>
 A:Cross-references: GB:R31217; NID:g163636; PIND:AAA30744.1; PID:g163637
 A:Note: the authors translated the codon ATT for residue 65 as Asn
 C:Comment: Somatostatin inhibits the release of somatotropin.
 C:Superfamily: somatostatin
 C:Keywords: hormone; neuropeptide
 F:1-24/Domain: signal sequence #status predicted <SIG>
 F:25-88/Domain: propeptide #status predicted <PRO>
 F:89-116/Product: somatostatin-28 #status predicted <M28>
 F:103-116/Product: somatostatin-14 #status predicted <M14>
 F:105-116/Disulfide bonds: #status predicted

Query Match	17.9%	Score 99;	DB 1;	Length 116;
Best Local Similarity	31.5%;	Pred. No. 0.0031;		
Matches	34;	Conservative	13;	Mismatches 41;
			Indels	20;
			Gaps	5;

```

QY 1 ATAAAPLE---GGPTGDS-----EHMO--AAGIRKSILT--FLAWFEMTQSAAGL 65
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 9 AATAATVYALAGVGTGAPSDPRALQFLQKRLAATAAKQELAKYFLAELLSEPNQETDAL 68
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 66 IGEFARVVARQF-----GAPPOQASRRDRMPCRMFFKTESSC 104
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 69 EPEDLSAAQODEKRELEIQRASANSNPAPMAREKREACKNFEWTFETTC 116
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

RESULT
RIRTS1

somatostatin precursor - rat
 N:Alternate names: preprosomatostatin
 N:Contains: somatostatin-14; somatostatin-28
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 03-Aug-1984 #sequence_revision 03-Aug-1984 #text_change 18-Jun-
 C:Accession: A0131; A47508; A22529; I55220; I51829
 R:Montminy, M.R.; Goodman, R.H.; Horvitch, S.J.; Habener, J.F.
 Proc. Natl. Acad. Sci. U.S.A. 81, 3337-3340, 1984
 A>Title: Primary structure of the gene encoding rat preprosomatostatin.
 A:Reference number: A20993; MUID:64221954; PMID:6145156

A:Accession: A20963
A:Molecule type: DNA
A:Residues: 1-116 <MON>
A:Cross-references: GB:J00787; NID:9207024; PIDN:AAA42164.1; PID:920702525
A:Note: the authors translated the codon ACC for residue 43 as Tyr
R:Argos, P.; Taylor, W.L.; Mithth, C.D.; Dixon, J.E.
J. Biol. Chem. 258, 8768-8793, 1983
A:Title: Nucleotide and amino acid sequence comparisons of preprosomatostatin
Reference number: A01431; MID:85338516; PMID:0134734

A;Accession: A01431
A;Status: nucleic acid sequence not shown

A: Molecule type: mRNA
A: Residues: 1-116 <ARG>
R: Benoit, R.; Ling, N.; Esch, F.

A: Reference number: A47598; MUID:88070564; PMID:2891188

A;Status: preliminary

A;Molecule type: protein

A/residues: 22-34 (BEM)
R:Tavianiini, M.A.; Hayes, T.E.; Magazín, M.D.; Minth, C.D.; Dixon, J.E

J. Biol. Chem. 259, 11798-11803, 1984

A;Reference number: A22529; MUID:85006903; PMID:61483433
A;Accession: A22529

A;Status: preliminary

A;Molecule type: DNA
A;Residues: 1-116 <TAV>

A/Cross-references: GB:K02248; NID:g207014; PIDN:AAA42161.1; PID:g207017
R:Goodman, R.H.; Jacobs, J.W.; Dee, P.C.; Habener, J.F.

J. Biol. Chem. 257, 1156-1159, 1982

A: Reference number: I55220; MUID:82120034; PMID:61201633

A;Accession: I55220
A;Status: translated from GB/EMBL/DBJ

A: Molecule type: mRNA
A: Residues: 38-78, 'H', 80-116 <RES>

A; Cross-references: GB:J00788; NID:g207018; PIDN:AAA421622
B:Goodman P H; Montminy M R; Low M T; Habener J F

Adv. Exp. Med. Biol. 188, 31-47, 1985

A;Title: Biosynthesis of fat preprosomatostatin.
A;Reference number: I51829; MUID:85303584; PMID:28639399

A;Accession: I51829
A;Status: translated from GB/EMBL/DBJ

A;Molecule type: mRNA
A;Residues: 1-116 <PF3>

A:Cross-references: GB:M25890; NID:g207030; PIDN:AAA42167.1; PID:g207031

[illegible]

RESULT 13
A32271
somatostatin-related protein - Atlantic hagfish
C:Species: Myxine glutinosa (Atlantic hagfish)
C:Date: 21-May-1990 #sequence_revision 21-May-1990 #text_change 31-Dec-1993
;Accession: A32271

RESULT 15
IS0798
preprosomatostatin SS-14 - channel catfish

C:Species: *Ictalurus punctatus* (channel catfish)
C:Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 16-Jul-1999
C:Accession: I50798
R:Dixon, J.E.; Andrews, P.C.
Adv. Exp. Med. Biol. 188, 19-29, 1985
A:Title: Somatostatins of the channel catfish.
A:Reference number: I50798; PMID:85303576; PMID:2863931
A:Accession: I50798
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-114 <DIX>
A:Cross-references: GDB:M25903; NID:g213339; PID:AAA49339.1; PID:g213340
C:Superfamily: somatostatin

Query Match	15.0%;	Score 83;	DB 2;	Length 114;
Best Local Similarity	37.0%;	Pred. No. 0.14;		
Matches 17; Conservative	7;	Mismatches 12;	Indels 10;	Gaps 1;

```

0Y 69 EAREVARQ-----GAPQOSARQDRMPCRNFFWKFTSSC 104
    ::||:| | | | | | | | | | | | | | | | | | | | | |
0b 69 DSDEVSRAAESEGARLENERAAGPMLAPRERKAGCKNFFWKFTTSC 114

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Search completed: June 23, 2003, 15:57:30
Job time : 42 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:50:44 ; Search time 22 Seconds

(Without alignments)
197.955 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MPLSPGLLLLLSGATATA.....ARRDRMPCRFNFKTSSCK 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	CORT_HUMAN	000230 homo sapien
2	295	53.2	112	CORT_RAT	062949 ratius norv
3	272	49.1	109	CORT_MOUSE	P56469 mus musculu
4	112.5	20.3	103	SMS2_RANRI	P87385 rana ridibu
5	112.5	20.3	111	SMSB_CARAU	Q9Y9H3 carassius a
6	99	17.9	116	SMS_BOVIN	P26917 bos laurus
7	98	17.7	116	SMS_SHEEP	Q46688 ovis aries
8	95.5	17.2	116	SMS_CANFA	P49670 canis famill
9	95	17.1	109	SMS2_PROAN	Q9W670 protopteris
10	95	17.1	116	SMS_MOUSE	P31067 mus musculu
11	92.5	16.7	116	SMS_CHICK	P31064 gallus gall
12	91.5	16.5	121	SMS1_LOPAM	P01169 lophius ame
13	91	16.4	114	SMSA_CARAU	Q9Y9H5 carassius a
14	89	16.1	116	SMS_HUMAN	P01168 homo sapien
15	87	15.7	92	SMS_PIG	P01168 sus scrofa
16	86	15.5	115	SMS1_RANRI	P19209 rana ridibu
17	85	15.3	34	SMS_MYXGL	P01171 myxine glut
18	83	15.0	114	SMS1_ICTPU	P01171 ictalurus p
19	83	15.0	115	SMS1_PROAN	Q9W670 protopteris
20	79.5	14.4	73	SMS2_PLAFE	P21780 platichthys
21	79	14.3	37	SMS_PETWA	P21779 petromyzon
22	78	14.1	26	SMS1_AMICA	Q9P9R6 amia calva
23	76	13.7	35	SMS_LAMPL	Q9P9R6 lampetra fl
24	76	13.7	115	SMS2_ONCMY	Q91194 oncorhynch
25	71.5	12.9	1493	M3K1_MOUSE	P53349 mus musculu
26	71	12.8	125	M3K1_MOUSE	P01170 lophius ame
27	71	12.8	125	C79B_MOUSE	P15530 mus musculu
28	70.5	12.7	682	TBR1_HUMAN	Q16650 homo sapien
29	70	12.6	14	SMS1_MYOSC	P20750 myoxocephal
30	70	12.6	14	SMS_ALIMI	P31885 alligator m
31	69.5	12.5	388	RGSK_HUMAN	Q76081 homo sapien
32	69.5	12.5	1077	AT10_HUMAN	Q9H324 homo sapien
33	68.5	12.4	74	SMS2_MYOSC	P09876 myoxocephal

ALIGNMENTS

RESULT 1	CORT_HUMAN	STANDARD	PRT	105 AA.
AC	000230			
DT	15-JUL-1998 (Rel. 36, Created)			
DT	15-JUL-1998 (Rel. 36, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	Cortistatin precursor [Contains: Cortistatin-29; Cortistatin-17].			
GN	CORT.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
OX	NCBI_Taxid:9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Brain;			
RX	MEDLINE=97236300; PubMed=9125122;			
RA	Fukusumi S., Kitada C., Takekawa S., Kizawa H., Sakamoto J.,			
RA	Miyamoto M., Hinuma S., Kitano K., Fujino M.;			
RT	"Identification and characterization of a novel human			
RT	cortistatin-like peptide.";			
RL	Biochem. Biophys. Res. Commun. 232:157-163(1997).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=97349120; PubMed=9205124;			
RA	de Leece L., Ruiz-Lozano P., Danielson P.E., Peelle-Kirley J.,			
RA	Foye P.E., Frankel W.N., Sutcliffe J.G.;			
RT	"Cloning, mRNA expression, and chromosomal mapping of mouse and human			
RT	preprocortistatin.";			
RT	Genomics 42:499-506(1997).			
CC	-1- FUNCTION: BINDS TO ALL HUMAN SOMATOSTATIN RECEPTOR (SSTR)			
CC	SUBTYPES. IT ALSO INHIBITS CAMP PRODUCTION INDUCED BY FORSKOLIN			
CC	THROUGH SSTRs.			
CC	-1- SUBCELLULAR LOCATION: Secreted.			
CC	-1- TISSUE SPECIFICITY: EXPRESSED IN A SUBSET OF GABAERGIC CELLS IN			
CC	THE CORTEX AND HIPPOCAMPUS.			
CC	-1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.			
CC	-----			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
CC	the European Bioinformatics Institute. There are no restrictions on its			
CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@isb-sib.ch).			
CC	-----			
DR	EMBL; AB000263; BA19770.1; -			
DR	EMBL; AF013252; AAB6895.1; -			
DR	Genew; HGNC:2257; CORT.			
DR	MIM; 602784; -			
DR	InterPro; IPR004250; Somatostatin.			
DR	Pfam; PF03002; Somatostatin; 1.			
KW	Cleavage on pair of basic residues; Hormone; Signal.			
FT	SIGNAL	1	18	POTENTIAL.
FT	PEPTIDE	77	105	CORTISTATIN-29 (POTENTIAL).
FT	PEPTIDE	89	105	CORTISTATIN-17.

34	68.5	12.4	1493	1	M3K1_RAT	062925 ratius norv
35	67	12.1	120	1	SMS2_CARAU	Q9Y9H4 carassius a
36	67	12.1	462	1	G1PR_MESAU	P43218 mesocricetu
37	66	11.9	390	1	AROC_BACHD	Q9K6D7 bacillus ha
38	65.5	11.8	445	1	NDOF_MYCTU	P95176 mycobacteri
39	65.5	11.8	501	1	GDPF_HUMAN	P43026 homo sapien
40	64.5	11.6	1032	1	CARA_HUMAN	Q9BW47 homo sapien
41	64.5	11.6	1298	1	ICPA_HSV11	P08392 herpes simp
42	64.5	11.6	2164	1	CCAA_MOUSE	P97445 mus musculu
43	64	11.6	1010	1	T226_HUMAN	Q92622 homo sapien
44	63.5	11.5	250	1	TDXH_AERPE	Q9Y910 aeropyrum p
45	63.5	11.5	709	1	MBA2_ECOLI	P07112 escherichia

FT DISULFID 93 104 BY SIMILARITY.
SQ SEQUENCE 105 AA; 11532 MW; 09578F4520201551 CRC64;
Query Match 100.0%; Score 554; DB 1; Length 105;
Best Local Similarity 100.0%; Pred. No. 2.8e-51;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFLSPGLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 60
DB 1 MFLSPGLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 60
QY 61 SAGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105
DB 61 SAGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105

RESULT 2
CORT_RAT STANDARD; PRT; 112 AA.
AC 062949;
DT 01-NOV-1997 (Rel. 35, Created)
FT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Cortistatin precursor [contains: Cortistatin-29; Cortistatin-17].
GN CORT.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_Taxid=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SYNTHESIS OF 99-112.
RC STRAIN-Sprague-Dawley;
RX MEDLINE=96208649; PubMed=8622767;
RA de Lecea L., Criado J.R., Prospero-Garcia O., Gautvik K.M.,
RA Schweitzer P., Danielson P.E., Dunlop C.L.M., Siggins G.R.,
RA Henriksen S.J., Sutcliffe J.G.;
RT "A cortical neuropeptide with neuronal depressant and sleep-modulating
RT properties.";
RT Nature 381:242-245(1996).
CC -1- FUNCTION: NEUROPEPTIDE WITH NEURONAL DEPRESSANT AND SLEEP-
CC MODULATING PROPERTIES.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: INTERNEURONS IN THE CEREBRAL CORTEX AND
CC HIPPOCAMPUS.
CC -1- DEVELOPMENTAL STAGE: THERE IS A TRANSIENT INCREASE IN CORTISTATIN-
CC EXPRESSING CELLS IN THE SECOND POSTNATAL WEEK IN ALL CORTICAL
CC AREAS AND IN THE DENTATE GYRUS. A TRANSIENT EXPRESSION IS OBSERVED
CC IN THE HILAR REGION AT P16.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC or send an email to license@sib-sib.ch).
CC -----
CC EMBL: U51919; AAC52585.1; -
CC InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
KW Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 27 POTENTIAL.
FT PEPTIDE 84 112 CORTISTATIN-29 (POTENTIAL).
FT PEPTIDE 99 112 CORTISTATIN-14.
FT DISULFID 100 111 BY SIMILARITY.
SQ SEQUENCE 112 AA; 12201 MW; FFLFBEC76CBD991 CRC64;

Query Match 53.2%; Score 295; DB 1; Length 112;
Best Local Similarity 55.8%; Pred. No. 3.7e-24;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSFGLLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 61

DB 11 PSALSLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 68
QY 62 AGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105
DB 62 AGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105

RESULT 3
CORT_MOUSE STANDARD; PRT; 109 AA.
AC P56469;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Cortistatin precursor [contains: Cortistatin-14].
GN CORT.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RX MEDLINE=97349120; PubMed=9205124;
RA de Lecea L., Ruiz-Lozano P., Danielson P.E., Peelle-Kirley J.,
RA Foye P.E., Frankel W.N., Sutcliffe J.G.;
RT "Cloning, mRNA expression, and chromosomal mapping of mouse and human
RT preprocortistatin.";
RT Genomics 42:499-506(1997).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: EXPRESSED IN A SUBSET OF GABAERGIC CELLS IN
CC THE CORTEX AND HIPPOCAMPUS.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC -----
CC EMBL: AF013253; AAB66896.1; -
CC MGD: MGI:109538; Cort.
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
KW Cleavage on pair of basic residues; Hormone; Signal.
FT SIGNAL 1 25 POTENTIAL.
FT PEPTIDE 96 109 CORTISTATIN-14.
FT DISULFID 97 108 BY SIMILARITY.
SQ SEQUENCE 109 AA; 11613 MW; 630D3BD00488F722 CRC64;

Query Match 49.1%; Score 272; DB 1; Length 109;
Best Local Similarity 55.8%; Pred. No. 9.3e-22;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSFGLLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 61
DB 12 PSALSLLLLSGATATAPLLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWMTSQAS 65
QY 62 AGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105
DB 62 AGPLIGEARVARROGAPPOQASARDKRCNRFNFKTSSCK 105

RESULT 4
SMS2_RANRI STANDARD; PRT; 103 AA.
ID SMS2_RANRI
AC P87385;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)


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OX NCBI_TaxID=7957;
RN [1]
RP SEQUENCE FROM N.A.
RC OTISSE-Brain;
RA Otto C.J., Lin X.-W., Peter R.E.;
RT "Molecular cloning of cDNA encoding [Pro2]somatostatin-14 in goldfish";
RL Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
CC -! FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -! SUBCELLULAR LOCATION: Secreted.
CC -! SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC or send an email to license@sib.ch).
CC -----
DR EMBL: U72656; AAD09631.1; -
DR InterPro: IPR0004250; Somatostatin.
DR Pfam: PF00302; Somatostatin; 1.
KW Cleavage on pair of basic residues; Hormone; Signal; Multigene family.
FT SIGNAL 1 19
FT PROPEP 20 87 POTENTIAL.
FT PEPTIDE 88 111 [PRO12]SOMATOSTATIN-24 (POTENTIAL).
FT PEPTIDE 98 111 [PRO2]SOMATOSTATIN-14.
FT DISULFID 100 111 BY SIMILARITY
SQ SEQUENCE 111 AA; 12557 MW; 0B93479BA2B9F051 CRC64;

Query Match
Best Local Similarity 20.3%; Score 112.5; DB 1; Length 111;
Matches 36; Conservative 16; Mismatches 40; Indels 15; Gaps 5;

QY 8 LLLLLSATNTAALPLRGCGPIRGSRSEHMQEAGLRKSSILTFLLAWPEWT-----SQAS 61
Db 10 LLLLVLYSVRAAAVPLVE---ERNPAOSRELSEKKEKELITLKLGLLDGVDNSVLDGEIA 65
QY 62 AGPLIGEAREVARROEGA--PPQGSARDR-MPCENFEFKTSSC 104
Db 66 PVPEDAEPELE-SRLERAVYNRLSQLPQRKRKPCKNFEFKTTSC 111

RESULT 6
ID SMS_BOVIN STANDARD; PRT; 116 AA.
AC P26917;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14].
GN SST.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=88288237; PubMed=2899837;
RA Su S.-J., White J.W., Li W.H., Luo C.C., Frazier M.L., Saunders G.F.,
RA Chan L.;
RT "Structure and evolution of somatostatin genes.";
RL Mol. Endocrinol. 2:209-216(1988).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Holstein;
RA MEDLINE=99198780; PubMed=10106681;
RA Furu L.M., Kazmer G.W., Strausbaugh L., Zinn S.A.;
RT "Cloning and characterization of the bovine somatostatin gene.";
RL J. Anim. Sci. 77:492-493(1993).
CC -! FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.

```

Db 69 EPEDLSQAEQDEMRLELQRSANSNPAMAPREKAGCKNEFWKTFTSC 116

DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14]
GN SST.

00 Eukaryota; Metazoa; Chordata; Craniata; Euteleostomi;
00 Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidea;
03 Bovidae; Caprinae; Ovis.
NCBI_TaxId=9940;

RP SEQUENCE FROM N.A.
RC STRAIN-Ile de France;
RX MEDLINE=99094691; Pubmed-9880082;

RT = Localization of the preprosomatostatin-mRNA by in situ hybridization in the ewe hypothalamus *;

CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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DR	EMBL; AF031488; AAC04697.1; -.
DR	EMBL; Y15267; CAA75556.1; -.

```

QY 17 ATALPDE---GGPTGRDS-----EIMOE--AAGIRKSSILT-FLAMMEFWTQSAGPL 65
      | | | : : : : :
Db 9 ALALSTVIALGAVTGAPSDPRLRQPLQKSLANNAAGKQELAKTFLLELLEPQNTENDAL 68
      | | | : : : : :

QY 66 IGEAREHVAROE-----CAPQOASRRDRMCRNPFMTTSSC 104
      | | | : : : : :
Db 69 EPEDLSOAEQDDERLELQRSANSNPMAPREKKACKNFEWMTFTSP 116
      | | | : : : : :

```

RESULT 8	
SMS_CANFA	STANDARD;
ID SMS_CANFA	PRT; 116 AA.

DT 01-FEB-1996 (Rel. 33, Created)

DT	01-FEB-1996 (Rel. 33, Last sequence update)
DT	16-OCT-2001 (Rel. 40, Last annotation update)

De Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14]
GN SST.

OS Canis familiaris (Dog) -

0C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
0C Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.

OX NCBI_TaxID=9615;

	[1]
RN	SEQUENCE FROM N.A.
RP	

RC	TISSUE=Gastric mucosa;
RX	MEDLINE=97142297; PubMed=8988514;

RA Dickinson C.J., Delval

RA Finniss S., Yamada T. ;
RT "Canine prosomatostatin: isolation of a cDNA, regulation of gene

RT expression, and characterization of post-translational processing intermediates.";

RL Regul. pept. 67:145-152(1996).

CC -|- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN
CC -|- SUBCELLULAR LOCATION: Secreted.
CC -|-

CC - I - SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY

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CC -----
DR EMBL; L42325; AAA67099.1; -.

DR InterPro; IPR004250; Somatostatin

DR : Pfam; PF03002; Somatostatin; 1.
KW Cleavage on pair of basic residues; Hormone; Signal.

FT SIGNAL 1 24 BY SIMILARITY.

FT	PROPER	25	88	BY SIMILARITY.
FT	PEPTIDE	89	116	SOMATOSTATIN-28.

FT	PEPTIDE		
103			
116			
			SOMATOSTATIN-14.

FT	DISULFID	SEQUENCE	BY	SIMILARITY.
105	116	AA; 12735 MW;	AB49BD231E731C9E	CRC64

Query Match 17:28; Score 95.5; DB 1; Length 116

Best Local Similarity 28.48; Pred. No. 0.0029;
Matches 31; Conservative 15; Mismatches 44; Indels 19; Gaps 4

QY 8 LLLLSGATATAALPLEGGPTGRDSEHMOE--AAGIRKSSILIT-FLAMWEWTSQASAGP 64
 DB 15 IVALLGVCAPSDP-----RLRPFLOKSLAAAGKQELAKFYLAELISEPNQJEND 67
 QY 65 LIGEARREVARROE-----GADPQOSARDRMPCRNFWKTFSSC 104
 DB 68 LEPEDELSQAEDQEMLELORSANSNPAPAPRRKAGCKNFWKTFSTC 116

RESULT 9
 SMS2_PROAN STANDARD; PRT; 109 AA.
 ID SMS2_PROAN STANDARD; PRT; 109 AA.
 AC 09W7E9;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin II precursor (PSS2) [contains: [Pro17]Somatostatin-29;
 DE [Pro2]Somatostatin-14].
 OS Protopterus annectens (African lungfish).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 NC Dipnoi; Lepidosireniformes; Protopteridae; Protopterus.
 NC NCBL_TaxID:7888;
 RX MEDLINE-99326690; PubMed-10398054;
 RA Trabucchi M., Tostivint H., Lihmann I., Jegou S., Vallarino M.,
 RA Vaudry H.;
 RT "Molecular cloning of the cDNAs and distribution of the mRNAs encoding
 RT two somatostatin precursors in the African lungfish Protopterus
 RT annectens";
 RL J. Comp. Neurol. 410:643-652(1999).
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
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 CC
 CC EMBL: AF126244; AAD39139.1;
 CC InterPro: IPR004250; Somatostatin.
 DR Pfam: PR03002; Somatostatin.1.
 KM Cleavage on pair of basic residues; Hormone; Multigene family; Signal.
 FT SIGNAL 1 16
 FT PROPEP 17 80 POTENTIAL.
 FT PEPTIDE 81 109 [PRO17]SOMATOSTATIN-29 (POTENTIAL).
 FT DISULFID 96 109 [PRO2]SOMATOSTATIN-14.
 FT DISULFID 98 109 BY SIMILARITY.
 SQ SEQUENCE 109 AA; 12422 MW; 9CBB3848C421BD9 CRC64;

Query Match 17.1%; Score 95; DB 1; Length 109;
 Best local similarity 29.2%; Pred. No. 0.0031;
 Matches 31; Conservative 16; Mismatches 41; Indels 18; Gaps 4;

QY 10 LLLSGATATAALPLEGGPTGRDSEHMOE--AAGIRKSSILIT-FLAMWEWTSQASAGPLIGE 68
 DB 11 LLLVWSVXATAPLVE---DRLSVSHNRDLTREREMILKMKISGLDSDNLSFG---GE 63
 QY 69 -----EAREVARROEGAPPOQASARDRMPCRNFWKTFSSC 104
 DB 64 VTSMDIEPPEKLEERAAVYNNLPOLPORDRAPCKNFWKTFSTC 109

RESULT 10
 SMS_MOUSE STANDARD; PRT; 116 AA.
 AC P01167;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin precursor [Contains: Antilin; Somatostatin-28;
 DE Somatostatin-14].
 GN SST OR SMS.
 OS Mus musculus (Mouse), and
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NC NCBL_TaxID:10090, 10116;
 NC NCBL_TaxID:10090, 10116;
 RX MEDLINE-85006903; PubMed-6148343;
 RA Tavanianni M.A., Hayes T.E., Magazini M.D., Minth C.D., Dixon J.E.;
 RT "Isolation, characterization, and DNA sequence of the rat
 RT somatostatin gene";
 RL J. Biol. Chem. 259:11798-11803(1984).
 RN
 RP SEQUENCE FROM N.A.
 RP SPECIES-Rat;
 RX MEDLINE-83238516; PubMed-6134734;
 RA Argos P., Taylor W.L., Minth C.D., Dixon J.E.;
 RT "Nucleotide and amino acid sequence comparisons of
 RT preprosomatostatins";
 RL J. Biol. Chem. 258:8788-8793(1983).
 RN
 RP SEQUENCE FROM N.A.
 RP SPECIES-Rat;
 RX MEDLINE-83213516; PubMed-6133871;
 RA Goodman R.H., Aron D.C., Roos B.A.;
 RT "Rat pre-prosomatostatin. Structure and processing by microsomal
 RT membranes";
 RL J. Biol. Chem. 258:5570-5573(1983).
 RN
 RP SEQUENCE FROM N.A.
 RP SPECIES-Rat;
 RX MEDLINE-85303584; PubMed-2863939;
 RA Goodman R.H., Montminy M.R., Low M.J., Habener J.F.;
 RT "Biosynthesis of rat preprosomatostatin";
 RL Adv. Exp. Med. Biol. 188:31-47(1985).
 RN
 RP SEQUENCE FROM N.A.
 RP SPECIES-Rat;
 RX MEDLINE-84221954; PubMed-6145156;
 RA Montminy M.R., Goodman R.H., Horovitch S.J., Habener J.F.;
 RT "Primary structure of the gene encoding rat preprosomatostatin";
 RL Proc. Natl. Acad. Sci. U.S.A. 81:3337-3340(1984).
 RN
 RP SEQUENCE OF 38-116 FROM N.A.
 RP SPECIES-Rat;
 RX MEDLINE-82120034; PubMed-6120163;
 RA Goodman R.H., Jacobs J.W., Dee P.C., Habener J.F.;
 RT "Somatostatin-28 encoded in a cloned cDNA obtained from a rat
 RT medullary thyroid carcinoma";
 RL J. Biol. Chem. 257:1156-1159(1982).
 RN
 RP SEQUENCE OF 25-34.
 RP SPECIES-Rat; STRAIN-Sprague-Dawley;
 RX MEDLINE-88070564; PubMed-2891188;
 RA Benoit R., Ling N., Esch F.;
 RT "A new prosomatostatin-derived peptide reveals a pattern for
 RT prohormone cleavage at monobasic sites";
 RL Science 238:1126-1129(1987).
 RN
 RP SEQUENCE FROM N.A.
 RP SPECIES-Mouse; TISSUE-Brain;
 RX MEDLINE-90206793; PubMed-1969620;
 RA Fuhrmann G., Helling R., Kempf J., Ebel A.;
 RT "Nucleotide sequence of the mouse preprosomatostatin gene";
 RL Nucleic Acids Res. 18:1287-1287(1990).
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC -----
DR EMBL; K02248; AAA42161.1; -
DR EMBL; V01271; CAA24579.1; -
DR EMBL; J00787; AAA42164.1; -
DR EMBL; M25890; AAA42167.1; -
DR EMBL; J00788; AAA42162.1; -
DR EMBL; X51468; CAA35831.1; -
DR PIR; A20983; R1RTS1.
DR PIR; S08416; S08416.
DR MGD; MGI:98326; Smt.
DR InterPro; IPR004250; Somatostatin.
DR Pfam; PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone; signal.
DR SIGNAL 1 24
DR PEPTIDE 25 34 ANTRIN.
DR PROPE 35 88
DR PEPTIDE 89 116 SOMATOSTATIN-28.
DR PEPTIDE 103 116 SOMATOSTATIN-14.
DR DISULFD 105 116
DR CONFLICT 43 43
DR CONFLICT 79 79 Q -> Y (IN REF. 5).
DR CONFLICT 79 79 Q -> H (IN REF. 6).
DR SEQUENCE 116 AA; 12745 MW; DA8B5454C490375 CMC64;

Query Match 17.1%; Score 95; DB 1; Length 116;
Best Local Similarity 30.2%; Pred. No. 0.0033;
Matches 35; Conservative 14; Mismatches 49; Indels 18; Gaps 5;

OY 7 LLLLLSGATATPAALEGGPTGRDS-----EHMOE--ANGIRKSSILT-FLAWFEWT 57
DB 1 MLCRLQCALALCIVLALGVGTGAPSPRLRQFLQKSLAAATGKQELAKFLLELSEP 60
OY 58 SQASAGPLIGEEAREVARROE-----GAPPOQSRDRMPCRNFFWKTFFSSC 104
DB 61 NOTENDALEPDLQAAEQDEMRLQLRSANSNPAMAPREKAGCKNFFWKTFFSC 116

RESULT 11
SMS.CHICK STANDARD; PRT; 116 AA.
AC P33094;
PT 01-OCT-1993 (Rel. 27, Created)
PT 01-OCT-1993 (Rel. 27, Last sequence update)
PT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14].
GN SST.
OS Gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Pancreas;
RA Nata K., Kobayashi T., Kurehashi K., Kato S., Yamamoto H.,
RA Yonekura H., Okamoto H.;
RL Submitted (JUN-1991) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC -----
DR EMBL; X60191; CAA42747.1; -
DR PIR; S20630; S20630.
DR InterPro; IPR004250; Somatostatin.
DR Pfam; PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone; signal.
DR SIGNAL 1 24
DR PROPE 25 88 BY SIMILARITY.
DR PEPTIDE 89 116 SOMATOSTATIN-28.
DR PEPTIDE 103 116 SOMATOSTATIN-14.
DR DISULFD 105 116
DR SEQUENCE 116 AA; 12675 MW; 8A5BB9BDA8A291BA CRC64;

Query Match 16.7%; Score 92.5; DB 1; Length 116;
Best Local Similarity 31.5%; Pred. No. 0.006;
Matches 34; Conservative 8; Mismatches 53; Indels 13; Gaps 3;

OY 7 LLLLLSGATATPAALEGGPTGRDSEHMOEANGIRKSSILT-FLAWFEWTSQASAGPL 65
DB 12 LLSIALAVGTVSAA---PSDRLRQFLQKSLAAAGKQELAKFLLELSEPQTEAL 68
OY 66 IGE-----FAREVARROEGAPPOQSRDRMPCRNFFWKTFFSSC 104
DB 69 ESEDLSRGAQDEVEVLELERSANSNPALAPREKAGCKNFFWKTFFSC 116

RESULT 12
SMS1.LOPAM STANDARD; PRT; 121 AA.
AC P01169;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin I precursor [Contains: Somatostatin-14].
OS Lophius americanus (American goosefish) (Anglerfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Paracanthopterygii; Lophiiformes; Lophiidae; Lophius.
OX NCBI_TaxID=8073;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=81052423; PubMed=6107860;
RA Hobart P.M., Crawford R., Shen L., Piclet R., Ruter W.J.;
RT "Cloning and sequence analysis of cDNAs encoding two distinct
RT somatostatin precursors found in the endocrine pancreas of
RT anglerfish."
RL Nature 288:137-141(1980).
RN [2]
RP SEQUENCE OF 2-121 FROM N.A.
RX MEDLINE=8107276; PubMed=6108560;
RA Goodman R.H., Jacobs J.W., Chin W.W., Lund P.K., Dee P.C.,
RA Habener J.F.;
RT "Nucleotide sequence of a cloned structural gene coding for a
RT precursor of pancreatic somatostatin."
RL Proc. Natl. Acad. Sci. U.S.A. 77:5869-5873(1980).
RN [3]
RP ERRATUM.
RA Goodman R.H., Jacobs J.W., Chin W.W., Lund P.K., Dee P.C.,
RA Habener J.F.;
RL Proc. Natl. Acad. Sci. U.S.A. 79:1682-1682(1982).
RN [4]
RP SEQUENCE OF 108-121.
RX MEDLINE=80046482; PubMed=387385;
RA Noe B.D., Spleiss J., Rivier J.E., Vale W.;
RT "Isolation and characterization of somatostatin from anglerfish
RT pancreatic islet."
RL Endocrinology 105:1410-1415(1979).
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----

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DR EMBL; V00640; CAA23986.1; -
 DR PIR; A01433; RIAFSI.
 DR InterPro: IPR004250; Somatostatin.
 DR Pfam: PF03002; Somatostatin; 1.
 KW Cleavage on pair of basic residues; Hormone; Signal;
 KM Multigene family.
 FT SIGNAL 1 24 PROBABLE.
 FT PROPEP 25 105
 FT PEPTIDE 108 121 SOMATOSTATIN-14.
 FT DISULFID 110 121
 FT CONFLICT 21 21 A -> V (IN REF. 2).
 FT CONFLICT 83 83 G -> E (IN REF. 2).
 SO SEQUENCE 121 AA; 13325 MW; D70C53DC798C2095 CRC64;

Query Match 16.5%; Score 91.5; DB 1; Length 121;
 Best Local Similarity 30.2%; Pred. No. 0.0079;
 Matches 35; Conservative 12; Mismatches 44; Indels 25; Gaps 5;

Db 8 LLLLSGATATLPLEGGPTGRDSE-----HMQEAG-----IRKSSILTLF----- 50
 12 LVLVLSLTPASISCSFAG---QRDSKRLHLHRYPLPGSKQDTRSLAELLSDLQGE 68
 51 -AMFEMTSQASAGPLIGEARVAREVARGAPPOQARRDMPCRNFMKTFSSC 104
 69 NEALEENFLAEGGP---EDAHADLERASGGPLAPRRKXGCKNFEMKFTTSC 121

RESULT 13
 SMS_CARAU STANDARD; PRT; 114 AA.
 ID SMS_CARAU
 AC OYGH5;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin 1A precursor [Contains: Somatostatin-26; Somatostatin-14].
 OS Carassius auratus (Goldfish).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Carassius.
 OC NCBI_TaxID=7957;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Lin X.-W., Peter R.E.;
 RT "Cloning and characterization of cDNAs encoding preprosomatostatin-I
 RT and -II from goldfish brain."
 RL Submitted (NOV-1995) to the EMBL/GenBank/DBJ databases.
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
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DR EMBL; U40754; AAD09359.1; -
 DR InterPro: IPR004250; Somatostatin.
 DR Pfam: PF03002; Somatostatin; 1.
 KW Cleavage on pair of basic residues; Hormone; Signal; Multigene family.
 KM SIGNAL 1 24 POTENTIAL.

FT PROPEP 25 88 POTENTIAL.
 FT PEPTIDE 89 114 SOMATOSTATIN-26 (POTENTIAL).
 FT DISULFID 101 114 SOMATOSTATIN-14.
 FT DISULFID 103 114 BY SIMILARITY.
 SO SEQUENCE 114 AA; 12574 MW; B5920015E2D272A4 CRC64;

Query Match 16.4%; Score 91; DB 1; Length 114;
 Best Local Similarity 27.0%; Pred. No. 0.0084;
 Matches 31; Conservative 12; Mismatches 42; Indels 30; Gaps 4;

Db 8 LLLLSGATATLPLEG-----GPTGRDSHMQEAGIRKSSILTLPLAMTFEW 56
 12 LLSIALAVCSVAPPTDAKROLLQRLSLNLPACK-----DELARYTLADLISLEY----- 61
 57 TSQASAGPLIGEARVAREVROE-----GAPPOQARRDMPCRNFMKTFSSC 104
 62 --QAEADLEPEDLSRAVEKDEYRLERAGAPMLAPRRKXGCKNFEMKFTTSC 114

RESULT 14
 SMS_HUMAN STANDARD; PRT; 116 AA.
 ID SMS_HUMAN
 AC P01166;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin precursor [contains: Somatostatin-28; Somatostatin-14].
 OS Homo sapiens (Human), and
 OS Macaca fascicularis (Grab eating macaque) (Cynomolgus monkey).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxID=9606, 9541;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC SPECIES=Human;
 RX MEDLINE=8416798; Pubmed=6142531;
 RA Shen L.-P., Rutter W.J.;
 RT "Sequence of the human somatostatin I gene."
 RL Science 224:168-171(1984).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC SPECIES=Human;
 RX MEDLINE=83014931; Pubmed=6126875;
 RA Shen L.-P., Pictet R.L., Rutter W.J.;
 RT "Human somatostatin I: sequence of the cDNA."
 RL Proc. Natl. Acad. Sci. U.S.A. 79:4573-4579(1982).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC SPECIES=M.fascicularis;
 RX MEDLINE=8814503; Pubmed=2894033;
 RA Travis G.H., Sutcliffe J.G.;
 RT "Phenol emulsion-enhanced DNA-driven subtractive cDNA cloning:
 RT isolation of low-abundance monkey cortex-specific mRNAs."
 RL Proc. Natl. Acad. Sci. U.S.A. 85:1696-1700(1988).
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- PHARMACOLOGICAL: Available under the name Sandostatin (Novartis);
 CC this is a synthetic cyclic analog known as octreotide or SMS
 CC 201.995. Used for the treatment of a variety of disorders
 CC including acromegaly and the symptomatic treatment of carcinoid
 CC tumors and vasoactive intestinal peptide tumors.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
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DR EMBL; J00306; AAA60566.1; -

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DR EMBL: M19318; AAA36908.1; -.
DR PIR: A43614; R1HUS1.
DR PIR: A28968; A28968.
DR Genew: HGNC:11329; SST.
DR MIM: 182450; -.
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone; Signal; Pharmaceutical.
FT SIGNAL 1 24
FT PROPEP 25 88
FT PEPTIDE 89 116 SOMATOSTATIN-28.
FT PEPTIDE 103 116 SOMATOSTATIN-14.
FT DISULFD 105 116
SQ SEQUENCE 116 AA; 12735 MW; AB49BB89DC9DD8DA CRC64;

Query Match
Best Local Similarity 29.6%; Score 89; DB 1; Length 116;
Matches 32; Conservative 14; Mismatches 42; Indels 20; Gaps 5;

QY 17 ATAAALPL-----EGGPTG-RDSEHMQE--AAGIRKSSLLT-FLAWPEWTSQASAGPL 65
b 9 ALAAISYIALGCVTAPSDRLROFLQKSLAAAGKQELAKYFLAELLSPNDENDAL 68
QY 66 IGEAREVARROE-----GAPPOASARDRMPCRNFFWKTFTSSC 104
Db 69 EPEDLSQAAEODEMRLEIORSANSNPAMAPRRKAGCKNFFWKTFTSC 116

RESULT 15
SMS_PIG ID SMS_PIG STANDARD: PRT; 92 AA.
AC P01168;
DT 21-JUL-1986 (Rel. 01, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14]
DE (Fragment).
GN SST.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID:9623;
RN [1]
RP SEQUENCE OF 1-64.
RA MEDLINE=89278131; PubMed=2567292;
RA Bersani M., Thim L., Baldissera F.G.A., Holst J.J.;
RT "Prosomatostatin 1-64 is a major product of somatostatin gene
RT expression in pancreas and gut.";
RL J. Biol. Chem. 264:10633-10636(1989).
RN [2]
RP SEQUENCE OF 1-32.
RA MEDLINE=86030691; PubMed=2865169;
RA Schmidt W.E., Mutt V., Kratzin H., Carlquist M., Conlon J.M.,
RA Creutzfeldt W.;
RT "Isolation and characterization of proSS-32, a peptide derived from
RT the N-terminal region of porcine preprosomatostatin.";
RL FEBS Lett. 192:141-146(1985).
RN [3]
RP SEQUENCE OF 65-92.
RC TISSUE=Intestine;
RX MEDLINE=80113258; PubMed=7353633;
RA Pradayrol L., Joernvall H., Mutt V., Ribet A.;
RT "N-terminally extended somatostatin: the primary structure of
RT somatostatin-28.";
RL FEBS Lett. 109:55-58(1980).
RN [4]
RP SEQUENCE OF 65-92.
RC TISSUE=Hypothalamus;
RX MEDLINE=81034799; PubMed=6107906;
RA Schally A.V., Huang W.-Y., Chang R.C.C., Arimura A., Redding T.W.,
RA Millar R.P., Hunkapiller M.W., Hood L.E.;
RT "Isolation and structure of pro-somatostatin: a putative somatostatin
RT precursor from pig hypothalamus.";
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RL Proc. Natl. Acad. Sci. U.S.A. 77:4489-4493(1980).
RN [5]
RP SEQUENCE OF 79-92.
RX MEDLINE=76136331; PubMed=1252409;
RA Schally A.V., Dupont A., Arimura A., Redding T.W., Nishi N.,
RA Linthicum G.L., Schlesinger D.H.;
RT "Isolation and structure of somatostatin from porcine hypothalamus";
RL Biochemistry 15:509-514(1976).
RN [6]
RP SEQUENCE OF 22-92 FROM N.A.
RA Ribet J.;
RL Submitted (SEP-1995) to the EMBL/Genbank/DBJ databases.
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC -----
DR EMBL: U36385; AAB38485.1; -.
DR PIR: A01432; R1P6S.
DR PIR: A24222; A24222.
DR PIR: A34109; A34109.
DR PIR: S13616; S13616.
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone.
KW NON_TER 1 1
FT PROPEP 1 64
FT PEPTIDE 65 92 SOMATOSTATIN-28.
FT PEPTIDE 79 92 SOMATOSTATIN-14.
FT DISULFD 81 92
SQ SEQUENCE 92 AA; 10346 MW; 787CBB82CFBBAE76 CRC64;

Query Match
Best Local Similarity 15.7%; Score 87; DB 1; Length 92;
Matches 15; Conservative 7; Mismatches 15; Indels 0; Gaps 0;

QY 68 EAREVARROGAPPOASARDRMPCRNFFWKTFTSSC 104
Db 56 DEMRLEIORSANSNPAMAPRRKAGCKNFFWKTFTSC 92
```

Search completed: June 23, 2003, 15:56:42
Job time : 23 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:45:24 ; Search time 84 Seconds

(without alignments)
257.559 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MPLSPGLLLLLSGATATAA.....ARRDRMPCRNFFWTKFSSCK 105

Scoring table:

BLOSUM62
Gapop 10.0 ; Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPREMBL_21:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	248	44.8	105	11	09R1P8 mus musculu
2	94.5	17.1	111	13	090XE0 actipenser t
3	89	16.1	116	13	090XE1 actipenser t
4	80	14.4	447	16	08XEM7 bruceella me
5	77	13.9	665	16	08ZBL8 arabisopsis
6	76	13.7	1051	10	09LXN4 arabidopsis
7	75	13.5	1325	16	08XU92 ralsconia s
8	74.5	13.4	101	16	092M60 rhizobium m
9	74	13.4	2055	4	075055 homo sapien
10	73.5	13.3	120	13	090Y39 catostomus
11	73	13.2	114	13	090Y41 gnathomus
12	73	13.2	114	13	090Y40 chitla chi
13	72.5	13.1	189	10	09SDP3 oryza sativ
14	71.5	12.9	426	4	094805 homo sapien
15	71.5	12.9	426	11	099MR0 mus musculu
16	71.5	12.9	475	4	075421 homo sapien

17	70	12.6	541	3	08WZ00 neurospora
18	70	12.6	779	2	09XBP9 myxococcus
19	70	12.6	1034	5	095YU0 leishmania
20	69.5	12.5	312	16	098F77 rhizobium 1
21	69.5	12.5	332	5	096086 haemaphysal
22	69.5	12.5	574	2	08R0P8 streptomyce
23	69.5	12.5	882	16	09PF33 xyella fas
24	69	12.5	204	10	094JAB oryza sativ
25	69	12.5	262	16	080GAB agrobacteri
26	69	12.5	334	16	09UR53 streptomyce
27	69	12.5	372	5	09U7E6 caenorhabd1
28	69	12.5	535	5	095002 caenorhabd1
29	69	12.5	637	6	09N2G5 pseudomonas
30	69	12.5	753	16	09HYT9 drosophila
31	69	12.5	764	5	09U7E7 drosophila
32	69	12.5	1169	5	09N1S0 toxoplasma
33	68.5	12.4	217	16	09RL23 streptomyce
34	68.5	12.4	484	13	09DD59 brachydanio
35	68	12.3	114	13	090Y42 pantodon bu
36	68	12.3	315	5	09VTT5 drosophila
37	68	12.3	352	5	09SRE4 drosophila
38	68	12.3	359	5	046173 drosophila
39	68	12.3	862	16	09KRQ4 vibrio chol
40	68	12.3	950	16	09HTS8 pseudomonas
41	67.5	12.2	374	16	09ABH2 caulobacter
42	67.5	12.2	838	12	P89445 herpes simp
43	67	12.1	195	4	096LW6 homo sapien
44	67	12.1	212	2	09XCC2 streptomyce
45	67	12.1	458	10	09AYAS oryza sativ

ALIGNMENTS

RESULT 1	PRELIMINARY:	PRT:	105 AA.
Q9R1P8			
AC 09R1P8:			
DT 01-MAY-2000 (TREMBLrel. 13, Created)			
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)			
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)			
DE Preprocorristatin.			
GN COR.			
OS Mus musculus (Mouse).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OC NCBI_Taxid=10090;			
RN [1]			
RN RP SEQUENCE FROM N.A.			
RC STRAIN=129/SV;			
RX MEDLINE=99453346; PubMed=10521599;			
RA Calbet M., Guadano-Ferraz A., Splier A.D., Sutcliffe J.G.,			
RA Przewlowski R., de Jecoa L.;			
RT "Cortistatin and somatostatin mRNAs are differentially regulated in			
RT response to kainate.";			
RL Brain Res. Mol. Brain Res. 72:55-64(1999).			
RN [2]			
RN RP SEQUENCE FROM N.A.			
RC STRAIN=129/SV;			
RA Calbet-Murto M., de Jecoa L.;			
RA Submitted (FEB-1998) to the EMBL/Genbank/DBJ databases.			
DR EMBL: AF050156; AAD51127.1; -			
DR MGD: MGI:109538; Cort.			
DR InterPro: IPR004250; Somatostatin.			
DR Pfam: PF03002; Somatostatin; 1.			
FT CHAIN 88 105			
SQ SEQUENCE 105 AA; 11061 MW; F0DCDA0052AB8E95 CRC64;			
FT CORISTATIN.			
QY Query Match 44.8%; Score 248; DB 11; Length 105;			
Best Local Similarity 51.0%; Pred. No. 5e-19; 29; Indels 10; Gaps 3;			
Matches 53; Conservative 12; Mismatches 29; Indels 10; Gaps 3;			
2 PLSPGLLLLLSGATATAALPLEGGPTGRDSEHMQEANGIRKSSILFLAMFWETWSQAS 61			

Db 12 PSACGILLIL---WGVAAAGALPLESGPTGDSQEAEG-----RSGILTFIAW---WASQAS 61
 QY 62 AGPLIGEARREYARROGAPPOQASRRDRMPCRNPFMTFSSCK 105
 Db 62 SSTPVGGGTGGLSKSQERPPPOQPPHLDKPKCKNFMTFSSCK 105

RESULT 2

Q90XEO PRELIMINARY; PRT; 111 AA.
 AC Q90XEO: 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Somatostatin pro2.
 OS Acipenser transmontanus (White sturgeon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
 OC Acipenser.
 NC NCB1_TaxID=7904;
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RA Tribucchi M., Tostivint H., Lihmann I., Sollars C., Vallarino M.,
 RA Dorez R.M., Vaudry H.;
 RT "Polygenic expression of somatostatin in the sturgeon Acipenser
 transmontanus: molecular cloning and distribution of the mRNAs
 encoding two somatostatin precursors."
 RL J. Comp. Neurol. 0:0-0(2001).
 DR EMBL; AF395850; AAL13249.1;
 DR InterPro; IPR004250; Somatostatin.
 DR Pfam; PF03002; Somatostatin; 1.
 SQ SEQUENCE 111 AA; 12748 MW; 4E27DB90896A9025 CRC64;

Query Match 17.1%; Score 94.5; DB 13; Length 111;
 Best Local Similarity 29.4%; Pred. No. 0.013;
 Matches 32; Conservative 18; Mismatches 40; Indels 19; Gaps 5;

OY 8 LLLLSGATATAAALPLEGGPTGRDSEHM-OEAGIRKSSLLTFIAMWFEMTSQASAGLI 66
 Db 10 LMLVYSLRVAVALPGE-----ERLSVSNRELSEKKEGFTKLISGLID---RDSVVL 62
 QY 67 GEARREV-----ARROGA-----PPOQASRRDRMPCRNPFMTFSSCK 104
 Db 63 GEDVSPMDLEPLDRLERAIYNRSLQLPRARKAPCKNFMTFSSCK 111

RESULT 3

Q90XEL PRELIMINARY; PRT; 116 AA.
 AC Q90XEL: 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Somatostatin.
 OS Acipenser transmontanus (White sturgeon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
 OC Acipenser.
 NC NCB1_TaxID=7904;
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RA Tribucchi M., Tostivint H., Lihmann I., Sollars C., Vallarino M.,
 RA Dorez R.M., Vaudry H.;
 RT "Polygenic expression of somatostatin in the sturgeon Acipenser
 transmontanus: molecular cloning and distribution of the mRNAs
 encoding two somatostatin precursors."
 RL J. Comp. Neurol. 0:0-0(2001).
 DR EMBL; AF395849; AAL13248.1;
 DR InterPro; IPR004250; Somatostatin.
 DR Pfam; PF03002; Somatostatin; 1.

SQ SEQUENCE 116 AA; 12616 MW; 72E0C3FF6C80650P CRC64;

Query Match 16.1%; Score 89; DB 13; Length 116;
 Best Local Similarity 27.4%; Pred. No. 0.052;
 Matches 29; Conservative 13; Mismatches 52; Indels 12; Gaps 3;

OY 9 LLLSGATATAAALPLEGGPTGRDSEHM-OEAGIRKSSLLTFIAMWFEMTSQASAGLI 67
 Db 13 LSLALAVSSVSAASD--PRLRQLLQRTLASAGQELKYSINELLSELQSENDALAS 70
 QY 68 EAREVA-----RROGAPPOQASRRDRMPCRNPFMTFSSCK 104
 Db 71 DELSRAEONDVRLERISANGNPAMAPRERKACKNFMTFSSCK 116

RESULT 4

Q8XEM7 PRELIMINARY; PRT; 447 AA.
 AC Q8XEM7: 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Hypothetical protein BME11660.
 GN BME11660 OR BME10903.
 OS Brucella melitensis.
 OC Bacteria; Proteobacteria; alpha subdivision; Rhizobiaceae group;
 OC Brucellaceae; Brucella.
 NC NCB1_TaxID=29459;
 RP SEQUENCE FROM N.A.
 RC STRAIN=16M / ATCC 23456 / BIOTYPE 1;
 RX MEDLINE=20020109; PubMed=11756688;
 RA DelVecchio V.G., Kapatal V., Redkar R.J., Patra G., Mujer C., Los T.,
 RA Ivanova N., Anderson I., Bhattacharya A., Lykidis A., Reznik G.,
 RA Jablonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Goldsman E.,
 RA Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-D.,
 RA Haselkorn R., Kyriides N., Overbeek R.;
 RT "The genome sequence of the facultative intracellular pathogen
 Brucella melitensis."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).
 DR EMBL; AE009601; AAL52841.1;
 DR EMBL; AE009531; AAL52084.1;
 DR InterPro; IPR002086; Aldenhyde_dehydr.
 DR PROSITE; PS00070; ALDENHYDE_DEHYDR_CYS; UNKNOWN_1.
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 447 AA; 50430 MW; F705D1DF7FAB05 CRC64;

Query Match 14.4%; Score 80; DB 16; Length 447;
 Best Local Similarity 36.4%; Pred. No. 2.3;
 Matches 24; Conservative 6; Mismatches 30; Indels 6; Gaps 1;

OY 23 LEGGPTGRDSEHMOEAGIRKSSLLTFIAMWFEMTSQASAGPLIGEARREYARROGAP 82
 Db 6 LEDEQGNDSERPOEDAEIRYSDMATPRFAATVAAE-----LVREAQAVEAAET 59
 QY 83 QOSARR 88
 Db 60 ROKRRR 65

RESULT 5

Q8ZBL8 PRELIMINARY; PRT; 665 AA.
 AC Q8ZBL8: 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Ferrichrome transport system permease protein FhuB.
 GN FhuB OR YPO3390.
 OS Yersinia pestis.
 OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 OC Yersinia.
 NC NCB1_TaxID=632;

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:56:50 ; Search time 48 Seconds
(without alignments)
236.702 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554
Sequence: 1 MFLSPGLLLILSLGATATA.....ARRDMPCRNPFWKTFSSCK 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

otal number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	10	US-09-766-396-26
2	554	100.0	105	12	US-10-062-375-26
3	554	100.0	155	9	US-10-066-500-132
4	554	100.0	155	9	US-10-028-072-380
5	554	100.0	155	9	US-10-121-043-380
6	554	100.0	155	9	US-10-123-904-380
7	554	100.0	155	9	US-10-140-470-380
8	554	100.0	155	9	US-10-175-746-380
9	554	100.0	155	9	US-10-176-918-380
10	554	100.0	155	9	US-10-176-921-380
11	554	100.0	155	9	US-10-002-796-132
12	554	100.0	155	9	US-10-066-273-132
13	554	100.0	155	9	US-10-137-865-380
14	554	100.0	155	9	US-10-140-474-380
15	554	100.0	155	9	US-10-142-431-380
16	554	100.0	155	9	US-10-143-114-380
17	554	100.0	155	9	US-10-066-269-132
18	554	100.0	155	9	US-10-140-002-380
19	554	100.0	155	9	US-10-140-002-380

20	554	100.0	155	9	US-10-066-193-132	Sequence 132, App
21	554	100.0	155	9	US-10-066-211-132	Sequence 132, App
22	554	100.0	155	9	US-10-142-419-380	Sequence 380, App
23	554	100.0	155	9	US-10-123-262-380	Sequence 380, App
24	554	100.0	155	9	US-10-142-423-380	Sequence 380, App
25	554	100.0	155	9	US-10-121-050-380	Sequence 380, App
26	554	100.0	155	9	US-10-141-755-380	Sequence 380, App
27	554	100.0	155	9	US-10-143-032-380	Sequence 380, App
28	554	100.0	155	9	US-10-123-108-380	Sequence 380, App
29	554	100.0	155	9	US-10-123-236-380	Sequence 380, App
30	554	100.0	155	9	US-10-123-261-380	Sequence 380, App
31	554	100.0	155	9	US-10-140-921-380	Sequence 380, App
32	554	100.0	155	9	US-10-140-928-380	Sequence 380, App
33	554	100.0	155	9	US-10-121-045-380	Sequence 380, App
34	554	100.0	155	9	US-10-123-292-380	Sequence 380, App
35	554	100.0	155	9	US-10-123-903-380	Sequence 380, App
36	554	100.0	155	9	US-10-124-819-380	Sequence 380, App
37	554	100.0	155	9	US-10-124-822-380	Sequence 380, App
38	554	100.0	155	9	US-10-140-925-380	Sequence 380, App
39	554	100.0	155	9	US-10-160-498-380	Sequence 380, App
40	554	100.0	155	9	US-10-121-041-380	Sequence 380, App
41	554	100.0	155	9	US-10-121-043-380	Sequence 380, App
42	554	100.0	155	9	US-10-121-047-380	Sequence 380, App
43	554	100.0	155	9	US-10-123-215-380	Sequence 380, App
44	554	100.0	155	9	US-10-123-902-380	Sequence 380, App
45	554	100.0	155	9	US-10-123-908-380	Sequence 380, App

ALIGNMENTS

RESULT 1
US-09-766-396-26
Sequence 26, Application US/09766396
Patent No. US20020013456A1
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
de Lecea, Luis
Sigging, George R.
Henriksen, Steven J.
TITLE OF INVENTION: NEUROPEPTIDES,
COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESS: THE SCRIPPS RESEARCH INSTITUTE
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,396
FILING DATE: 18-Jan-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/857,389
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Schmonsees, William
REGISTRATION NUMBER: 31,796
REFERENCE/DOCKET NUMBER: 22908-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-7041
TELEFAX: (415) 324-0638
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
SEQUENCE DESCRIPTION: SEQ ID NO: 26;
US-09-766-396-26

Query Match 100.0%; Score 554; DB 10; Length 105;
Best Local Similarity 100.0%; Pred. No. 5,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLLLSGATATATPLBGGPTGRDSEHMOEAAGIRKSSLLTFLAMWFEWTSQA 60
DB 1 MPLSPGILLLLSGATATATPLBGGPTGRDSEHMOEAAGIRKSSLLTFLAMWFEWTSQA 60
QY 61 SAGPLIGEARVARROGAPPOOSARRDRMPCRNFEWKTSSCK 105
DB 61 SAGPLIGEARVARROGAPPOOSARRDRMPCRNFEWKTSSCK 105

RESULT 2
US-10-062-375-26
Sequence 26, Application US/10062375
Patent No. US20020133000A1
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
de Lacey, Luis
Siggins, George R.
Henriksen, Steven J.
TITLE OF INVENTION: NEUROPEPTIDES,
COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. US20020133000A1ch Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/062,375
FILING DATE: 30-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/857,389
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Schmonsees, William
REGISTRATION NUMBER: 31,796
REFERENCE/DOCKET NUMBER: 22908-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-7041
TELEFAX: (415) 324-0638
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
SEQUENCE DESCRIPTION: SEQ ID NO: 26;
US-10-062-375-26

Query Match 100.0%; Score 554; DB 12; Length 105;
Best Local Similarity 100.0%; Pred. No. 5,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MPLSPGILLLLSGATATATPLBGGPTGRDSEHMOEAAGIRKSSLLTFLAMWFEWTSQA 60
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DB 61 SAGPLIGEARVARROGAPPOOSARRDRMPCRNFEWKTSSCK 105

RESULT 3
US-10-066-500-132
Sequence 132, Application US/10066500
Patent No. US20020177165A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerltsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kljavin
APPLICANT: Jennie P. Macther
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William T. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C7
CURRENT APPLICATION NUMBER: US/10/066,500
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
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PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/06364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694

;; PRIOR FILING DATE: 1997-12-16
;; PRIOR APPLICATION NUMBER: 60/074086
;; PRIOR FILING DATE: 1998-02-09
;; PRIOR APPLICATION NUMBER: 60/074092
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;; PRIOR FILING DATE: 1998-03-25
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;; PRIOR FILING DATE: 1998-08-10
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;; PRIOR FILING DATE: 1999-09-01
;; PRIOR APPLICATION NUMBER: 09/20594
;; PRIOR FILING DATE: 1999-09-08
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;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: 09/21547

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 51 MPLSGLLLLLSGATATAALPLEGGPGRDESEHMOEAAGIRKSSLLTFEAMFWMTSOA 110
OY 61 SAGPLIGEARVAROGAPPOGARDRMPCRNFEWKTSSCK 105
DB 111 SAGPLIGEARVAROGAPPOGARDRMPCRNFEWKTSSCK 155

RESULT 4
US-10-028-072-380
Sequence 380, Application US/10028072
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
FILE OF INVENTION:
CURRENT APPLICATION NUMBER: US/10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
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PRIOR APPLICATION NUMBER: 60/063045
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PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127

PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
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PRIOR FILING DATE: 1997-10-27
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PRIOR FILING DATE: 1997-11-03
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PRIOR FILING DATE: 1997-11-07
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PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15

;; PRIOR APPLICATION NUMBER: 60/082999
;; PRIOR FILING DATE: 1998-04-24
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085149
;; PRIOR FILING DATE: 1998-05-12
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/086414
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/086430
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088730
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088741
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090538
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 554; DB 9; Length 155;

Best Local Similarity 100.0%; Pred. No. 8.4e-52;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFILAMFWMTSOA 60
|||||

Db 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFILAMFWMTSOA 110
QY 61 SAGPLIGEARVARROEGAPPOOSARRDRMPCRNPFMTSSCK 105
|||||
Db 111 SAGPLIGEARVARROEGAPPOOSARRDRMPCRNPFMTSSCK 155

RESULT 5

US-10-121-049-380

; Sequence 380, Application US/10121049
; Publication No. US2003002239A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: Deforge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3330R1C17

; CURRENT FILING DATE: 2002-04-12

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 380

; LENGTH: 155

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-121-049-380

Query Match 100.0%; Score 554; DB 9; Length 155;

Best Local Similarity 100.0%; Pred. No. 8.4e-52;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFILAMFWMTSOA 60
|||||
Db 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFILAMFWMTSOA 110
QY 61 SAGPLIGEARVARROEGAPPOOSARRDRMPCRNPFMTSSCK 105
|||||
Db 111 SAGPLIGEARVARROEGAPPOOSARRDRMPCRNPFMTSSCK 155

RESULT 6

US-10-123-904-380

; Sequence 380, Application US/10123904
; Publication No. US20030022328A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: Deforge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123,904
CURRENT FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 110
|||||
QY 61 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 7
US-10-140-470-380

Sequence 380, Application US/10140470
Publication No. US20030022331A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C160
CURRENT APPLICATION NUMBER: US/10/140,470
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-470-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 110
|||||

QY 61 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 8
US-10-175-746-380

Sequence 380, Application US/10175746
Publication No. US20030027270A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C353
CURRENT APPLICATION NUMBER: US/10/175,746
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-746-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLGCGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSQA 110
|||||
QY 61 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 9
US-10-176-918-380

Sequence 380, Application US/10176918
Publication No. US20030027275A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C382
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-918-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSGILLLLSGATATAPLEGGPTGRDSEHMOEAGIRKSSILFLIWMFEWTSQA 60
DB 51 MPLSGILLLLSGATATAPLEGGPTGRDSEHMOEAGIRKSSILFLIWMFEWTSQA 110

QY 61 SAGPLIGEARREVARROEGAPPOQSARDRMPCRNFEWTFSSCK 105
DB 111 SAGPLIGEARREVARROEGAPPOQSARDRMPCRNFEWTFSSCK 155

RESULT 10
US-10-176-921-380
Sequence 380, Application US/10176921
Publication No. US20030027276A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C288
CURRENT APPLICATION NUMBER: US/10/176,921
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-921-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSGILLLLSGATATAPLEGGPTGRDSEHMOEAGIRKSSILFLIWMFEWTSQA 60
DB 51 MPLSGILLLLSGATATAPLEGGPTGRDSEHMOEAGIRKSSILFLIWMFEWTSQA 110

QY 61 SAGPLIGEARREVARROEGAPPOQSARDRMPCRNFEWTFSSCK 105
DB 111 SAGPLIGEARREVARROEGAPPOQSARDRMPCRNFEWTFSSCK 155

DB 111 SAGPLIGEARREVARROEGAPPOQSARDRMPCRNFEWTFSSCK 155

RESULT 11
US-10-002-796-132
Sequence 132, Application US/10002796
Publication No. US20030032057A1
GENERAL INFORMATION:

APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Bolstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Baton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kljavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood

APPLICANT: Zemin Zhang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C1
CURRENT APPLICATION NUMBER: US/10/002,796
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000

PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/159495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/US98/14552
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/28301

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATALLPLEGGTGRDSEHMOEAAQIRKSSLLTFLAMFWEMTSOA 60
DB 51 MPLSPGLLLLSGATATALLPLEGGTGRDSEHMOEAAQIRKSSLLTFLAMFWEMTSOA 110
QY 61 SAGPLIGEAREVARROEGAPPOOSARRDMPCRNPFWKTFSSCK 105
DB 111 SAGPLIGEAREVARROEGAPPOOSARRDMPCRNPFWKTFSSCK 155

RESULT 12
US-10-066-273-132
; Sequence 132, Application US/10066273
; Publication No. US20030032062A1
; GENERAL INFORMATION:
; APPLICANT: Avi J. Ashkenazi
; APPLICANT: Kevin P. Baker
; APPLICANT: David A. Botstein
; APPLICANT: Luc Desnoyers
; APPLICANT: Dan L. Eaton
; APPLICANT: Napoleone Ferrara
; APPLICANT: Sherman Fong
; APPLICANT: Wei-Qiang Gao
; APPLICANT: Hanspeter Gerber
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; APPLICANT: Audrey Goddard
; APPLICANT: Paul J. Godowski
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; APPLICANT: Ivar J. Kjaavn
; APPLICANT: Jennie P. Mather
; APPLICANT: Mary A. Napier
; APPLICANT: James Pan
; APPLICANT: Nicholas F. Paoni
; APPLICANT: Margaret Ann Roy
; APPLICANT: Timothy A. Stewart
; APPLICANT: Daniel Tumas
; APPLICANT: Colin K. Watanabe
; APPLICANT: P. Mickey Williams
; APPLICANT: William I. Wood
; APPLICANT: Zemin Zang
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3130R1C2
; CURRENT APPLICATION NUMBER: US/10/066,273
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 10/002,796
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062285
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; PRIOR APPLICATION NUMBER: 60/062816
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; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066840
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; PRIOR APPLICATION NUMBER: 60/069694
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 60/074086
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/074092
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/095998
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; PRIOR APPLICATION NUMBER: 60/097000
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; PRIOR APPLICATION NUMBER: 09/202088
; PRIOR FILING DATE: 1998-12-08
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; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: 09/254460
; PRIOR FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: 09/254465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 09/284663
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 09/332928
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; PRIOR APPLICATION NUMBER: 09/332929
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; PRIOR APPLICATION NUMBER: 09/380137
; PRIOR FILING DATE: 1999-08-25
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; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/403296
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; PRIOR APPLICATION NUMBER: 09/403297

;; PRIOR FILING DATE: 1999-10-18
;; PRIOR APPLICATION NUMBER: 09/423741
;; PRIOR FILING DATE: 1999-11-10
;; PRIOR APPLICATION NUMBER: 09/423844
;; PRIOR FILING DATE: 1999-11-12
;; PRIOR APPLICATION NUMBER: 09/522342
;; PRIOR FILING DATE: 2000-03-09
;; PRIOR APPLICATION NUMBER: 09/548815
;; PRIOR FILING DATE: 2000-04-13
;; PRIOR APPLICATION NUMBER: 09/664610
;; PRIOR FILING DATE: 2000-09-18
;; PRIOR APPLICATION NUMBER: 09/665350
;; PRIOR FILING DATE: 2000-09-18
;; PRIOR APPLICATION NUMBER: 09/709238
;; PRIOR FILING DATE: 2000-11-08
;; PRIOR APPLICATION NUMBER: 09/767609
;; PRIOR FILING DATE: 2001-01-22
;; PRIOR APPLICATION NUMBER: 09/802706
;; PRIOR FILING DATE: 2001-03-09
;; PRIOR APPLICATION NUMBER: 09/808689
;; PRIOR FILING DATE: 2001-03-14
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;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 09/870574
;; PRIOR FILING DATE: 2001-05-30
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;; PRIOR FILING DATE: 2001-06-01
;; PRIOR APPLICATION NUMBER: 09/868342
;; PRIOR FILING DATE: 2001-06-19
;; PRIOR APPLICATION NUMBER: PCT/US98/14552
;; PRIOR FILING DATE: 1998-07-14
;; PRIOR APPLICATION NUMBER: PCT/US98/18824
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;; PRIOR FILING DATE: 1998-09-17
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;; PRIOR FILING DATE: 1998-12-01
;; PRIOR APPLICATION NUMBER: PCT/US98/25190
;; PRIOR FILING DATE: 1998-11-25
;; PRIOR APPLICATION NUMBER: PCT/US99/05028
;; PRIOR FILING DATE: 1999-03-08
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: 1999-06-02
;; PRIOR APPLICATION NUMBER: PCT/US99/20111
;; PRIOR FILING DATE: 1999-09-01
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MPLSPGLLLLSATATATAPLEGGPTGRDSEHMOENAGIRKSLTFLAMFEWTSQA 60
Db 51 MPLSPGLLLLSATATATAPLEGGPTGRDSEHMOENAGIRKSLTFLAMFEWTSQA 110

Qy 61 SAGLIGEARAVARROGAPPOOSARRDRMPCNFTWKTSSCK 105
Db 111 SAGLIGEARAVARROGAPPOOSARRDRMPCNFTWKTSSCK 155

RESULT 13
US-10-066-494-132
Sequence 132, Application US/10066494

;; Publication No. US20030032063A1
;; GENERAL INFORMATION:
;; APPLICANT: Avi J. Ashkenazi
;; APPLICANT: Kevin P. Baker
;; APPLICANT: David A. Botstein
;; APPLICANT: Luc Desnoyers
;; APPLICANT: Dan L. Eaton
;; APPLICANT: Napoleone Ferrara
;; APPLICANT: Sherman Fong
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;; APPLICANT: Nicholas F. Paoni
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;; APPLICANT: Daniel Tunas
;; APPLICANT: Colin K. Watanabe
;; APPLICANT: P. Mickey Williams
;; APPLICANT: William I. Wood
;; APPLICANT: Zemin Zang

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACTS ENCODING THE SAME
FILE REFERENCE: P3130R1C9
CURRENT APPLICATION NUMBER: US/10/066,494
PRIOR FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
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PRIOR APPLICATION NUMBER: 60/099803

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;; PRIOR FILING DATE: 1999-10-18
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;; PRIOR APPLICATION NUMBER: 09/423741
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;; PRIOR FILING DATE: 1999-11-12
;; PRIOR APPLICATION NUMBER: 09/522342
;; PRIOR FILING DATE: 2000-03-09
;; PRIOR APPLICATION NUMBER: 09/548815
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;; PRIOR FILING DATE: 1998-07-14
;; PRIOR APPLICATION NUMBER: PCT/US98/18824
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: PCT/US98/19093
;; PRIOR FILING DATE: 1998-09-14
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;; PRIOR APPLICATION NUMBER: PCT/US98/19437
;; PRIOR FILING DATE: 1998-09-17
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;; PRIOR APPLICATION NUMBER: PCT/US99/05028
;; PRIOR FILING DATE: 1999-03-08
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: 1999-06-02
;; PRIOR APPLICATION NUMBER: PCT/US99/20111
;; PRIOR FILING DATE: 1999-09-01
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLILLILSGATATATLPLEGGPTGRDSEHMQEAGIRKSSILFTLAWFEWTSOA 60
DB 51 MPLSPGLILLILSGATATATLPLEGGPTGRDSEHMQEAGIRKSSILFTLAWFEWTSOA 110
QY 61 SAGPLIGEARREVARROEGAPPOQASRRDRMPCRNFEWTFSSCK 105
DB 111 SAGPLIGEARREVARROEGAPPOQASRRDRMPCRNFEWTFSSCK 155

RESULT 14
US-10-137-865-380
; Sequence 380, Application US/10137865
; Publication No. US20030032155A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C154
CURRENT APPLICATION NUMBER: US/10/137,865
CURRENT FILING DATE: 2002-05-03
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-865-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMFEWMTSOA 60
DB 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMFEWMTSOA 110
QY 61 SAGPLIGEARVAVARQEGAPPOOSARRDRMPCRNFFWKTFSCK 105
DB 111 SAGPLIGEARVAVARQEGAPPOOSARRDRMPCRNFFWKTFSCK 155

RESULT 15

US-10-140-474-380
Sequence 380, Application US/10140474
Publication No. US20030032156a1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C162
CURRENT APPLICATION NUMBER: US/10/140,474
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155

TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-474-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMFEWMTSOA 60
DB 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMFEWMTSOA 110
QY 61 SAGPLIGEARVAVARQEGAPPOOSARRDRMPCRNFFWKTFSCK 105
DB 111 SAGPLIGEARVAVARQEGAPPOOSARRDRMPCRNFFWKTFSCK 155

Search completed: June 23, 2003, 16:06:11
Job time : 49 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:54:49 ; Search time 26 Seconds

(without alignments)
118.823 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MFLSPGLLLLLSGATATMA.....ARRDRMPCRFMTFSCK 105

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	US-09-001-472-2	Sequence 2, Appl1
2	295	53.2	112	US-08-648-322-2	Sequence 2, Appl1
3	295	53.2	112	US-09-001-472-3	Sequence 3, Appl1
4	272	49.1	109	US-08-648-322-5	Sequence 5, Appl1
5	267	48.2	85	US-08-648-322-6	Sequence 6, Appl1
6	257.5	46.5	84	US-08-648-322-10	Sequence 10, Appl1
7	160	28.9	29	US-09-001-472-4	Sequence 4, Appl1
8	119	21.5	29	US-08-648-322-11	Sequence 11, Appl1
9	116	20.9	29	US-08-648-322-7	Sequence 7, Appl1
10	95	17.1	110	US-08-648-322-3	Sequence 3, Appl1
11	85	15.3	14	US-08-648-322-8	Sequence 8, Appl1
12	85	15.3	15	US-08-648-322-23	Sequence 23, Appl1
13	76	13.7	14	US-08-648-322-24	Sequence 24, Appl1
14	71.5	12.9	1493	US-09-423-890-8	Sequence 4, Appl1
15	71.5	12.9	1593	US-08-628-829-4	Sequence 4, Appl1
16	71	12.8	228	US-08-417-495-27	Sequence 27, Appl1
17	71	12.8	228	US-08-284-391B-27	Sequence 27, Appl1
18	71	12.8	228	US-09-218-950-27	Sequence 27, Appl1
19	71	12.8	228	US-09-01785-27	Sequence 27, Appl1
20	71	12.8	228	PCT-US95-00454-27	Sequence 27, Appl1
21	70	12.6	13	US-09-039-116-1	Sequence 1, Appl1
22	70	12.6	14	US-07-663-455-2	Sequence 2, Appl1
23	70	12.6	14	US-07-977-628A-1	Sequence 5, Appl1
24	70	12.6	14	US-08-255-272-5	Sequence 4, Appl1
25	70	12.6	14	US-08-416-007-4	Sequence 11, Appl1
26	70	12.6	14	US-08-676-265-11	Sequence 13, Appl1
27	70	12.6	14	US-08-286-748B-13	

28	70	12.6	14	US-08-690-090A-1	Sequence 1, Appl1
29	70	12.6	14	US-08-488-159-1	Sequence 1, Appl1
30	70	12.6	14	US-08-465-764-1	Sequence 1, Appl1
31	70	12.6	14	US-08-475-751-4	Sequence 4, Appl1
32	70	12.6	14	US-08-282-980B-1	Sequence 1, Appl1
33	70	12.6	14	US-08-747-137-13	Sequence 13, Appl1
34	70	12.6	14	US-09-039-062-1	Sequence 1, Appl1
35	70	12.6	14	US-09-042-224-1	Sequence 1, Appl1
36	70	12.6	14	US-09-042-315A-1	Sequence 1, Appl1
37	70	12.6	14	US-08-931-095-1	Sequence 1, Appl1
38	70	12.6	14	US-09-026-633-6	Sequence 6, Appl1
39	70	12.6	14	US-09-100-414B-83	Sequence 83, Appl1
40	70	12.6	14	US-09-420-866-1	Sequence 1, Appl1
41	70	12.6	14	US-09-420-865-1	Sequence 1, Appl1
42	70	12.6	14	US-09-303-323-83	Sequence 83, Appl1
43	70	12.6	14	US-08-586-670A-1	Sequence 1, Appl1
44	70	12.6	14	US-09-120-237-1	Sequence 1, Appl1
45	70	12.6	14	US-09-144-991B-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-09-001-472-2
Sequence 2, Application US/09001472

Patent No. 6232100

GENERAL INFORMATION:

APPLICANT: OLSEN, HENRIK S.

APPLICANT: ROSEN, STEVEN M.

TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESS: STERN, KESSLER, GOLDSTEIN & FOX P.L.L.C.

STREET: 1100 NEW YORK AVENUE, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: US

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/001,472

FILING DATE: Herewith

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/033,980

FILING DATE: 31-DEC-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/037,386

FILING DATE: 07-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1468.0430002

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 105 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-001-472-2

Query Match 100.0%; Score 554; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 4.5e-62;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 60
DB 1 MPLSPGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 60
QY 61 SAGPLIGEARVARROEGAPPOOSARDRMPCRNFWFKTSSCK 105
DB 61 SAGPLIGEARVARROEGAPPOOSARDRMPCRNFWFKTSSCK 105

RESULT 2

US-08-648-322-2
Sequence 2, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-648-322-2

Query Match 53.2%; Score 295; DB 3; Length 112;
Best Local Similarity 55.8%; Pred. No. 1.5e-29;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 61
DB 11 PLSGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 68
QY 62 AGPLIGEARVARROEGAPPOOSARDRMPCRNFWFKTSSCK 105
DB 69 SSTAPEGTPELSKRQERPPPLQDPHRDKKPCNFWFKTSSCK 112

RESULT 3

US-09-001-472-3
Sequence 3, Application US/09001472
Patent No. 6232100
GENERAL INFORMATION:
APPLICANT: OLSEN, HENRIK S.
APPLICANT: RUBEN, STEVEN M.
TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSES:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/001,472
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,980
FILING DATE: 31-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,386
FILING DATE: 07-FEB-1997

ATTORNEY/AGENT INFORMATION:
NAME: STERNE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0430002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-001-472-3

Query Match 53.2%; Score 295; DB 4; Length 112;
Best Local Similarity 55.8%; Pred. No. 1.5e-29;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 61
DB 11 PLSGILLILSGATATALLPLEGPGTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 68
QY 62 AGPLIGEARVARROEGAPPOOSARDRMPCRNFWFKTSSCK 105
DB 69 SSTAPEGTPELSKRQERPPPLQDPHRDKKPCNFWFKTSSCK 112

RESULT 4

US-08-648-322-5
Sequence 5, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322

FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
LENGTH: 109 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-648-322-5

Query Match 49.1%; Score 272; DB 3; Length 109;
Best Local Similarity 55.8%; Pred. No. 1,1e-26;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSPGLLLLSATATAPLPGGPTGRDSEHMOEAGIRKSSLLFTLAMFEWTSQAS 61
DB 12 PSAFGGLL---WGVASALPLPSGPTGDS--VOEATEGR-SGLLFTLAMHWMASQAS 65

QY 62 AGPLIGEAREVAROBGAPPOOSARDRMPCKNFMTFSSCK 105
DB 66 SSTPVGGGTGSLKSDRPPPOQPHLDKPKCKNFMTFSSCK 109

RESULT 5

US-08-648-322-6
Sequence 6, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:

APPLICANT: Sutcliffe, Gregor J.

TITLE OF INVENTION: CORRELATION: NEUROPEPTIDES,

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE

STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8

CITY: La Jolla

STATE: California

COUNTRY: US

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/648,322

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas

REGISTRATION NUMBER: 34,163

REFERENCE/DOCKET NUMBER: 519.0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937

TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 85 amino acids
TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: C-terminal

US-08-648-322-6

Query Match

48.2%; Score 267; DB 3; Length 85;

Best Local Similarity 57.5%; Pred. No. 3,3e-26;
Matches 50; Conservative 12; Mismatches 23; Indels 2; Gaps 1;

QY 19 AALPLEGGPTGRDSEHMOEAGIRKSSLLFTLAMFEWTSQASAGPLIGEAREVAROE 78
DB 1 SALPLESGPTGDS--VQDATGGRRTGLFTFLAMHWMASQASSSTPVGGGTGSLKSGE 58

QY 79 GAPPOQSARDRMPCKNFMTFSSCK 105
DB 59 RPLPOQPPHRDKPKCKNFMTFSSCK 85

RESULT 6

US-08-648-322-10
Sequence 10, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:

APPLICANT: Sutcliffe, Gregor J.

TITLE OF INVENTION: CORRELATION: NEUROPEPTIDES,

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE

STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8

CITY: La Jolla

STATE: California

COUNTRY: US

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/648,322

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas

REGISTRATION NUMBER: 34,163

REFERENCE/DOCKET NUMBER: 519.0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937

TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 84 amino acids
TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: C-terminal

US-08-648-322-10

Query Match 46.5%; Score 257.5; DB 3; Length 84;
Best Local Similarity 58.6%; Pred. No. 5e-25;

Matches 51; Conservative 10; Mismatches 23; Indels 3; Gaps 2;

QY 19 AALPLEGGPTGRDSEHMOEAGIRKSSLLFTLAMFEWTSQASAGPLIGEAREVAROE 78
DB 1 SALPLESGPTGDS--VQEATEGR-SGLLFTLAMHWMASQASSSTPVGGGTGSLKSGE 57

QY 79 GAPPOQSARDRMPCKNFMTFSSCK 105
DB 58 RPPPOQPHLDKPKCKNFMTFSSCK 84

RESULT 7

US-09-001-472-4

Sequence 4, Application US/09001472

Patent No. 6232100

GENERAL INFORMATION:

APPLICANT: OLSEN, HENRIK S.

APPLICANT: RUBEN, STEVEN M.
TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/001,472
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,980
FILING DATE: 31-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,386
FILING DATE: 07-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0430002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-001-472-4

Query Match 28.9%; Score 160; DB 4; Length 29;
Best Local Similarity 96.6%; Pred. No. 2e-13; Indels 0; Gaps 0;
Matches 28; Conservative 0; Mismatches 1;

OY 77 OEGAPPOOSARRDRMPCRNFFWKTFSSCK 105
DB 1 OEGAPPOOSARRDRMPCRNFFWKTFSSCK 29

RESULT 8
US-08-648-322-11
Sequence 11, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
ADDRESSEE: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 NO. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322

FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-11

Query Match 21.5%; Score 119; DB 3; Length 29;
Best Local Similarity 69.0%; Pred. No. 2.8e-08;
Matches 20; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

OY 77 OEGAPPOOSARRDRMPCRNFFWKTFSSCK 105
DB 1 OERPPPOQPHLDKPKCNFFWKTFSSCK 29

RESULT 9
US-08-648-322-7
Sequence 7, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
ADDRESSEE: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 NO. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-7

Query Match 20.9%; Score 116; DB 3; Length 29;
Best Local Similarity 69.0%; Pred. No. 6.6e-08;
Matches 20; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 77 QEGAPQGSARRDRMPCRNFWKTFSSCK 105
|| | || : : ||| ||| |||
Db 1 QERPPLQGRPHRDKKPCKNFWKTFSSCK 29

US-RSULT 10 322-3
US-08-648-322-3
Sequence 3, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Leca, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519, 0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2837
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 110 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-3

```

Query Match      17.1%; Score 95; DB 3; Length 110;
Best Local Similarity 31.5%; Pred. No. 0.00017;
Matches 34; Conservative 13; Mismatches 41; Indels 20; Gaps 5;

QY      17  ATATATPLE---GGTGGTGRDS-----EHHQEE--AAGTRKSSLLT-PLAMFEWMTSQASACPL 65
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db       3  ALMAACLTALAGGTGAPSDPRLRKQFLDKSLTAATATGCKELAKKFFLAETLLSEPNQETNDAL 62

QY      66  IGEBAREYARQEE-----GAPPOOSARRDRDPCRCNFFWKTFTSSC 104
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      63  EPEIDLPAAEODEMKRLLELRQSANSPNPAWAPERRRAGCENFFWKTFTSSC 110

```

RESULT 11-328
US-08-648-322-8
Sequence 8, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de lecea, Luis
TITLE OF INVENTION: CORTRASTIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPS RESEARCH INSTITUTE
STREET: 10666 NO. 6074872th Torrey Pines Road,
TPO-8

CITY: La Jolla
 STATE: California
 COUNTRY: US
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/648,322
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Fitting, Thomas
 REGISTRATION NUMBER: 34,163
 REFERENCE/DOCKET NUMBER: 519.0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 554-2937
 TELEFAX: (619) 554-6312
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 14 amino acids
 type: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FRAGMENT TYPE: C-terminal
 US-08-648-322-8

Query Match	15.3%	Score 85;	DB 3;	Length 14;	:
Best Local Similarity	92.9%;	Pred. NO. 0.00019;			
Matches 13; Conservative	1;	Mismatches 0;	Indels 0;	Gaps 0;	

RESULT 12
 US-08-648-322-23
 : Sequence 23, Application US/08648322
 Patent No. 6074872
 GENERAL INFORMATION:
 APPLICANT: Sutcliffe, Gregor J.
 APPLICANT: de Leece, Luis
 TITLE OF INVENTION: COMBINATIN: NEUROPEPTIDES,
 TITLE OF INVENTION: COMPOSITIONS AND METHODS
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
 STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
 CITY: La Jolla
 STATE: California
 COUNTRY: US
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/648,322
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Filling, Thomas
 REGISTRATION NUMBER: 34,163
 REFERENCE/DOCKET NUMBER: 519.0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 554-2937
 TELEFAX: (619) 554-6312
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-23

Query Match 15.3%; Score 85; DB 3; Length 15;
Best Local Similarity 92.9%; Pred. No. 0.00021;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

OY 92 PCRNFFKTFSSCK 105
DB 2 PCKNFFKTFSSCK 15

RESULT 13
US-08-648-322-24
Sequence 24, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Leca, Luis
TITLE OF INVENTION: CORSTARTIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-24

Query Match 13.7%; Score 76; DB 3; Length 14;
Best Local Similarity 85.7%; Pred. No. 0.0025;
Matches 12; Conservative 2; Mismatches 0; Indels 0;

OY 92 PCRNFFKTFSSCK 105
DB 1 PCKNFFKTFSSCK 14

RESULT 14
US-09-423-890-8
Sequence 8, Application US/09423890
Patent No. 6312934
GENERAL INFORMATION:
APPLICANT: CADUS PHARMACEUTICAL CORPORATION

TITLE OF INVENTION: HUMAN MEK PROTEIN AND NUCLEIC ACID MOLECULES
TITLE OF INVENTION: AND USES THEREFOR
FILE REFERENCE: CPI-085CPC
CURRENT APPLICATION NUMBER: US/09/423,890
CURRENT FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: USSN 60/078,153
PRIOR FILING DATE: 1998-03-16
PRIOR APPLICATION NUMBER: USSN 60/099,165
PRIOR FILING DATE: 1998-09-04
NUMBER OF SEQ ID NOS: 38
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 8
LENGTH: 1493
TYPE: PRT
ORGANISM: Mus musculus
US-09-423-890-8

Query Match 12.9%; Score 71.5; DB 4; Length 1493;
Best Local Similarity 23.4%; Pred. No. 5.2;
Matches 26; Conservative 12; Mismatches 42; Indels 31; Gaps 5;

OY 13 SGATATTAAL--PLEGGPTGRDSEHMOEAGIRKS-----SLTFLAMFEMT 57
DB 138 SGARSPACAEPPSAAPSGREMEKETLGLHKMEDRPEERMIKRLKATCMPAKKHEML 197
OY 58 SQAS-AGPLI-----GEAREVARROEG-----APPOGASRRDRMP 92
DB 198 ERRNRGCVVYKPIPIKGDGSEVNNLAAPGEGGAGSAAAPAKGRSPSP 248

RESULT 15
US-08-628-829-4
Sequence 4, Application US/08628829A
Patent No. 6333170

GENERAL INFORMATION:
APPLICANT: Johnson, Gary L.
TITLE OF INVENTION: Method And Product For Regulating Cell Responsiveness To Exter
FILE REFERENCE: CPI-004DVC3
CURRENT APPLICATION NUMBER: US/08/628,829A
CURRENT FILING DATE: 1996-04-05
EARLIER APPLICATION NUMBER: 08/440,421
EARLIER FILING DATE: 1995-05-15
EARLIER APPLICATION NUMBER: 08/323,460
EARLIER FILING DATE: 1994-10-14
EARLIER APPLICATION NUMBER: 08/049,254
EARLIER FILING DATE: 1993-05-15
EARLIER APPLICATION NUMBER: 08/410,602
EARLIER FILING DATE: 1995-04-24
EARLIER APPLICATION NUMBER: 08/472,934
EARLIER FILING DATE: 1995-06-06
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 1593
TYPE: PRT
ORGANISM: Mus musculus
US-08-628-829-4

Query Match 12.9%; Score 71.5; DB 4; Length 1593;
Best Local Similarity 23.4%; Pred. No. 5.7;
Matches 26; Conservative 12; Mismatches 42; Indels 31; Gaps 5;

OY 13 SGATATTAAL--PLEGGPTGRDSEHMOEAGIRKS-----SLTFLAMFEMT 57
DB 238 SGARSPACAEPPSAAPSGREMEKETLGLHKMEDRPEERMIKRLKATCMPAKKHEML 297
OY 58 SQAS-AGPLI-----GEAREVARROEG-----APPOGASRRDRMP 92
DB 298 ERRNRGCVVYKPIPIKGDGSEVNNLAAPGEGGAGSAAAPAKGRSPSP 348

Search completed: June 23, 2003, 16:03:20
Job time : 27 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:44:24 ; Search time 73 Seconds

(without alignments)
191.662 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MPLSPGILLLLSGATATTA.....ARRDRPCNFRFWKTFSSCK 105

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 908470 segs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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4: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1983.DAT:*
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22: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA2001.DAT:*
23: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	AAW64433	Human cortistatin
2	554	100.0	105	AAW44045	hcs-105 peptide.
3	554	100.0	105	AAW42047	Human preprocortis
4	554	100.0	105	AAE21885	Human preprocortis
5	554	100.0	155	AAU12361	Human PRO350 polyp
6	554	100.0	155	AAU12361	Amino acid sequenc
7	535.5	96.7	189	AAU12361	Novel human diagno
8	461	83.2	85	AAW44044	hcs-85 peptide.
9	450	81.2	88	AAW44056	Mutant hcs peptide
10	340	61.4	62	AAW44043	hcs-62 peptide. S

11	295	53.2	112	19	AAW42033	Rat preprocortista
12	295	53.2	112	23	AAE21870	Rat preprocortista
13	272	49.1	109	19	AAW42034	Mouse preprocortis
14	272	49.1	109	23	AAE21872	Mouse preprocortis
15	267	48.2	85	19	AAW42035	Rat preprocortistat
16	257.5	46.5	84	19	AAW42039	Mouse preprocortistat
17	256	46.2	85	23	AAE21873	Rat preprocortistat
18	252.5	45.6	84	23	AAE21877	Rat preprocortistat
19	174	31.4	33	19	AAW44053	Mutant hcs peptide
20	166	30.0	29	19	AAW44047	Mutant hcs-29 pept
21	166	30.0	29	19	AAW44046	hcs-29 peptide. S
22	163	29.4	29	19	AAW44046	Synthetic cortista
23	160	28.9	29	19	AAW64434	Mutant hcs-29 pept
24	160	28.9	29	19	AAW44048	Mutant hcs-29 pept
25	158	28.5	28	19	AAW44049	Mutant hcs-29 pept
26	158	28.5	28	19	AAW44050	Mutant hcs-29 pept
27	155	28.0	28	19	AAW44051	Mutant hcs-29 pept
28	143.5	25.9	51	23	AAE21924	Preprocortistatin con
29	121	21.8	23	19	AAW44054	Mutant hcs peptide
30	119	21.5	29	19	AAW42040	A fragment of the
31	119	21.5	29	23	AAE21878	Mouse preprocortistat
32	116	20.9	29	19	AAW42036	A fragment of rat
33	116	20.9	29	23	AAE21874	Rat preprocortistatin
34	111	20.0	29	22	AAW44016	Cortistatin peptid
35	104	18.8	17	19	AAW44016	hcs-17 peptide. S
36	104	18.8	17	22	AAW44016	Somatostatin relat
37	104	18.8	17	22	AAW44016	Somatostatin relat
38	104	18.8	17	23	AAW44016	Somatostatin relat
39	101	18.2	17	19	AAW44030	Mutant hcs peptid
40	101	18.2	17	19	AAW44030	Mutant hcs peptid
41	101	18.2	17	21	AAW44030	Mutant hcs peptid
42	101	18.2	17	23	AAW44030	Mutant hcs peptid
43	99	17.9	16	19	AAW44021	Mutant hcs peptid
44	99	17.9	16	21	AAW44021	Mutant hcs peptid
45	99	17.9	16	23	AAW44021	Mutant hcs peptid

ALIGNMENTS

RESULT 1	
AAW64433	
ID	AAW64433 standard; Protein; 105 AA.
XX	
AC	AAW64433;
XX	
DT	16-OCT-1998 (first entry)
DE	Human cortistatin protein.
XX	
KW	Cortistatin; human; diagnosis; treatment; sleep disorder.
XX	
OS	Homo sapiens.
XX	
FT	Key
FT	Peptide
FT	Protein
FT	Location/Qualifiers
XX	1..19
XX	/label= signal
XX	20..105
XX	/label= cortistatin
XX	
PN	WO9829438-A2.
PD	09-JUL-1998.
XX	
PF	23-DEC-1997; 97WO-US23784.
XX	
PR	07-FEB-1997; 97US-0037386.
PR	31-DEC-1996; 96US-0033980.
XX	
PA	(HUMA-) HUMAN GENOME SCI INC.
XX	
PI	Olsen HS, Ruben SM;
XX	

DR WPI; 1998-388036/33.
 DR N-PSDB; AAV46265.
 XX New human corticostatin - useful for, e.g. diagnosing and treating
 PT sleep disorders
 PS Claim 1; Fig 1; 81pp; English.
 XX This sequence represents a novel human corticostatin which can be used
 CC in diagnostic methods for detecting variations in corticostatin gene
 CC expression. The corticostatin polypeptide can be used for treating
 CC an individual in need of an increased level of corticostatin e.g. for the
 CC diagnosis and treatment of a sleep disorder.
 SQ Sequence 105 AA:
 Query Match 100.0%; Score 554; DB 19; Length 105;
 Best Local Similarity 100.0%; Pred. No. 8.2e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 OY 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 RESULT 2
 AAM44045
 ID AAM44045 standard; peptide; 105 AA.
 XX AAM44045;
 AC AAM44045;
 XX 26-JUN-1998 (first entry)
 DT 26-JUN-1998 (first entry)
 XX hCS-105 peptide.
 DE hCS-105 peptide.
 OS Corticostatin; somatostatin; hCS-105 peptide; hormone-producing tumour;
 KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
 KW digestive system regulation; neural inhibitor; therapy.
 XX Synthetic.
 OS Synthetic.
 XX WO9746668-A1.
 PN WO9746668-A1.
 XX 11-DEC-1997.
 PD 11-DEC-1997.
 XX 05-JUN-1997; 97WO-JP01911.
 XX 15-OCT-1996; 96JP-0272422.
 PR 07-JUN-1996; 96JP-0146052.
 PR 19-SEP-1996; 96JP-0247710.
 XX (TAKE) TAKEDA CHEM IND LTD.
 PA (TAKE) TAKEDA CHEM IND LTD.
 XX Fukusumi S, Hinuma S, Kitada C;
 PI Fukusumi S, Hinuma S, Kitada C;
 DR WPI; 1998-042177/04.
 DR N-PSDB; AAV02054; AAV02055.
 PT Peptide having corticostatin or somatostatin activity - useful as
 PT anticancer and antiulcer agent, and for control of dementia and
 PT growth abnormalities
 PS Claim 7; Page 116; 174pp; Japanese.
 XX This sequence represents the peptide hCS-105. It is a peptide of the
 CC invention, and has corticostatin or somatostatin activity. Antibodies
 CC recognising hCS-17 can be used to screen for a compound that modulates,
 CC i.e. an agonist or antagonist, the binding of hCS-17 to its receptor, and
 CC to assay for hCS-17, e.g. diagnosis. hCS-17, the DNA encoding it or a

CC receptor agonist or antagonist can be used to treat and prevent
 CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
 CC gastric ulcers and dementia, regulate sleep and control growth disorders
 CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
 CC regulate hormone secretion and the digestive system (e.g. to treat
 CC diabetes), and as tumour multiplication or neural inhibitors.
 XX Sequence 105 AA:
 Query Match 100.0%; Score 554; DB 19; Length 105;
 Best Local Similarity 100.0%; Pred. No. 8.2e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFFLAMWFEWTSQA 60
 DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 OY 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFFWKTSSCK 105
 RESULT 3
 AAM42047
 ID AAM42047 standard; Protein; 105 AA.
 XX AAM42047;
 AC AAM42047;
 XX 28-MAY-1998 (first entry)
 DT 28-MAY-1998 (first entry)
 XX Human preprocortistatin homologue.
 DE Human preprocortistatin homologue.
 OS Human preprocortistatin; procortistatin; corticostatin-29; corticostatin-17;
 KW agonist; antibody; inhibition; sleep; somatostatin; acetylcholine;
 KW neuronal electrical activity; cerebral cortex; antagonist; primer; PCR;
 KW immunosassay; hybridisation; amplification; ss.
 XX Homo sapiens.
 OS Homo sapiens.
 XX Key Location/Qualifiers
 FH CDS 77..395
 FT /*tag= a
 FT /product= "Human preprocortistatin"
 XX WO9743417-A1.
 PN WO9743417-A1.
 XX 20-NOV-1997.
 PD 20-NOV-1997.
 XX 15-MAY-1997; 97WO-US08481.
 PF 15-MAY-1997; 97WO-US08481.
 XX 15-MAY-1996; 96US-0648322.
 PR 15-MAY-1996; 96US-0648322.
 XX (SCRI) SCRIPPS RES INST.
 PA (SCRI) SCRIPPS RES INST.
 XX De Lecea L, Henriksen SJ, Siggins GR, Sutcliffe JG;
 PI De Lecea L, Henriksen SJ, Siggins GR, Sutcliffe JG;
 DR WPI; 1998-008886/01.
 DR N-PSDB; AAV09164.
 PT New corticostatin peptide(s) - used to modulate sleep, detect
 PT mutation(s) and screen for drugs
 PS Claim 3; Page 112; 128pp; English.
 XX This sequence encodes the novel human preprocortistatin protein, which
 CC is processed to produce the mature corticostatin proteins referred as
 CC human corticostatin-29, and corticostatin-17. The purified corticostatin,
 CC and its agonists, are used to induce sleep while its receptor antagonists
 CC (particularly antibodies) is used to inhibit sleep. Although corticostatin
 CC is structurally similar to somatostatin, it is able to depress neuronal
 CC electrical activity, induce low frequency waves in the cerebral cortex,
 CC antagonise acetylcholine and therefore enhance slow-wave sleep. The
 CC antibodies, and oligonucleotide primers, are used in usual immunoassays

CC and hybridisation/amplification assays to detect or quantify cortistatin
CC (including that administered therapeutically) or its nucleic acid.
CC Oligonucleotides, e.g. antisense molecules, are used in vivo to alter
CC cortistatin gene expression. Detection of a mutation in the cortistatin
CC gene may provide diagnosis of sleep-related or neuronal
CC depression-related disorders or diseases of the brain.
XX
SQ Sequence 105 AA;
Query Match 100.0%; Score 554; DB 19; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFLSGILLLLSGATATATPLLEGPTGRDSEHMOEAGIRKSSILTFIAMFWETSSQA 60
DB 1 MFLSGILLLLSGATATATPLLEGPTGRDSEHMOEAGIRKSSILTFIAMFWETSSQA 60
QY 61 SAGPLIGEARREVARROEGAPPQOSARRDRMPCRNFFWTFSSCK 105
b 61 SAGPLIGEARREVARROEGAPPQOSARRDRMPCRNFFWTFSSCK 105
RESULT 4
AAE21885
ID AAE21885 standard; Protein; 105 AA.
XX
AC AAE21885;
XX
DT 16-JUL-2002 (first entry)
XX
DE Human preprocortistatin protein.
XX
KW Human; cortistatin; sedative; neuropeptide; screening; therapeutic;
KM sleep disorder; pharmaceutical compound; diagnosis.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Cleavage-site 75..76
FT Cleavage-site 87..88
XX
PN US2002013456-A1.
XX
PD 31-JAN-2002.
XX
PF 18-JAN-2001; 2001US-0766396.
XX
PR 15-MAY-1997; 97US-0857389.
PR 15-MAY-1996; 96US-0648322.
XX
PA (SCL1) SCRIPPS RES INST.
XX
PI Sutcliffe JG, Lecea LD, Henriksen SJ, Siggins GR;
XX
DR WPI; 2002-328475/36.
DR N-PSDB; AAD34533, AAD34577.
XX
PT New mammalian cortistatin useful in screening and diagnostic methods,
PT and in therapeutic methods related in modulating sleep and sleeping
PT disorders
XX
PS Claim 2; Fig 3b; 50pp; English.
XX
CC The invention relates to a substantially isolated and purified mammalian
CC cortistatin. The cortistatin nucleic acids, proteins, polypeptides
CC and antibodies are useful in screening and diagnostic methods, and in
CC therapeutic methods related to modulation of sleep and sleeping
CC disorders. Cortistatin proteins may be used as immunogen to produce
CC antibodies immunoreactive with cortistatin, in in vitro ligand binding
CC specificities, to characterise candidate pharmaceutical compounds useful
CC for modulating cortistatin function, and as therapeutic agents for
CC effecting cortistatin functions. The present sequence is human
CC preprocortistatin protein.

XX
SQ Sequence 105 AA;
Query Match 100.0%; Score 554; DB 23; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFLSGILLLLSGATATATPLLEGPTGRDSEHMOEAGIRKSSILTFIAMFWETSSQA 60
DB 1 MFLSGILLLLSGATATATPLLEGPTGRDSEHMOEAGIRKSSILTFIAMFWETSSQA 60
QY 61 SAGPLIGEARREVARROEGAPPQOSARRDRMPCRNFFWTFSSCK 105
DB 61 SAGPLIGEARREVARROEGAPPQOSARRDRMPCRNFFWTFSSCK 105
RESULT 5
AAU12361
ID AAU12361 standard; Protein; 155 AA.
XX
AC AAU12361;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human PRO350 polypeptide sequence.
XX
KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
KW adipocyte; A-peptide; factor VIIA; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200140466-A2.
XX
PD 07-JUN-2001.
XX
PF 01-DEC-2000; 2000WO-US32678.
XX
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 02-DEC-1999; 99WO-US28565.
PR 09-DEC-1999; 99US-0170262.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 30-DEC-1999; 99WO-US31243.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07532.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 10-NOV-2000; 2000WO-US30873.
XX
PA (GENE) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX

DR WPI: 2001-408281/43.
 DR N-PSDB: AAS21433.
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical
 PS Claim 12: Fig 380; 813pp; English.
 XX
 CC AA012172-AA012446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 CC
 XX Sequence 155 AA;
 -50
 Query Match 100.0%; Score 554; DB 22; Length 155;
 Best Local Similarity 100.0%; Pred. No. 1.3e-53;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPUSPGLLLLSGATTAALPLEGGPTGRDSEHMOAGIRKSSLLTFLAMFEWTSQA 60
 DQ 51 MPUSPGLLLLSGATTAALPLEGGPTGRDSEHMOAGIRKSSLLTFLAMFEWTSQA 110
 DQ 61 SAGPLIGEARREVARROGAPPOOSARRDRPCNPFWKTFSSCK 105
 DQ 111 SAGPLIGEARREVARROGAPPOOSARRDRPCNPFWKTFSSCK 155

RESULT 6
 AAB31213
 AAB31213 standard; Protein: 155 AA.
 AAB31213;
 XX 20-APR-2001 (first entry)
 XX
 DE Amino acid sequence of human polypeptide PRO350.
 XX
 KW Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
 KW PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO355; PRO1361; PRO1308;
 KW PRO1183; PRO1272; PRO1419; PRO4999; PRO248; PRO353; PRO318;
 KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
 KW PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
 KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FH Modified-site 33..37
 FT /note- "amidation site"
 FT Modified-site 35..39
 FT /note- "cAMP- and cGMP-dependent protein kinase
 FT phosphorylation site"
 FT Domain 51..69
 FT /note- "transmembrane domain"

FT Modified-site 64..70
 FT /note- "N-myristoylation site"
 FT Modified-site 75..81
 FT /note- "N-myristoylation site"
 FT Modified-site 90..96
 FT /note- "N-myristoylation site"
 PN MO200077037-A2.
 PD 21-DEC-2000.
 XX 22-MAY-2000; 2000WO-US14042.
 PF 15-JUN-1999; 99US-0139695.
 PR 20-JUL-1999; 99US-0145070.
 PR 26-JUL-1999; 99US-0145698.
 PR 17-AUG-1999; 99US-0149396.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 PR 07-DEC-1999; 99US-0169495.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Bolstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Kijavich IT, Mather JP, Napier MA, Pan J;
 PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX
 DR WPI: 2001-050091/06.
 DR N-PSDB: AAC87056.
 DR
 PT Isolated nucleic acid molecule encoding a PRO polypeptide which is a
 PT transmembrane polypeptide is useful for gene therapy and identification
 PT of related polypeptides -
 XX
 PS Claim 12: Fig 70; 244pp; English.
 XX
 CC The present sequence represents a human secreted and transmembrane
 CC polypeptide. The specification describes human polypeptides, designated
 CC PRO196, PRO444, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
 CC PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO4999, PRO7170,
 CC PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
 CC PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
 CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
 CC can be modulated with agents that bind to these polypeptides, resulting
 CC in the death of the cells. The polynucleotides encoding of these
 CC polypeptides are useful in the recombinant production of the
 CC homologous sequences, or to map the gene. They may also be used for
 CC analysing genetic disorders, and to produce transgenic animals which are
 CC useful for the development and screening of therapeutically useful
 CC reagents. The polynucleotides can also be used in gene therapy e.g. to
 CC replace a defective gene.
 XX
 SO Sequence 155 AA;
 -50
 Query Match. 100.0%; Score 554; DB 22; Length 155;

Db 1 LPLEGGPTGRDSEHMOAGIRKSSLLTFLAMWEMTSQASAGPLIGEAREVARROGA 60
 QY 81 PPOOSARRDRMPCRNFFMKTFSSCK 105
 Db 61 PPOOSARRDRMPCRNFFMKTFSSCK 85

RESULT 9
 AAM44056
 ID AAM44056 standard; peptide: 88 AA.

AC AAM44056;

DT 26-JUN-1998 (first entry)

DE Mutant hcs peptide.

XX Corticostatin; somatostatin; hcs peptide; hormone-producing tumour;
 KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
 KM digestive system regulation; neural inhibitor; therapy.

XX Synthetic.

PN W09746668-A1.

PD 11-DEC-1997.

PF 05-JUN-1997; 97WO-JP01911.

PR 15-OCT-1996; 96JP-0272422.

PR 07-JUN-1996; 96JP-0146052.

PR 19-SEP-1996; 96JP-0247710.

XX (TAKE) TAKEDA CHEM IND LTD.

PI Fukusumi S, Hinuma S, Kitada C;

DR WPI: 1998-042177/04.

DR N-PSDB; AAV02096, AAV02097.

XX Peptide having corticostatin or somatostatin activity - useful as
 PT anticancer and antitumor agent, and for control of dementia and
 PT growth abnormalities

PS Disclosure; Page 118; 174pp; Japanese.

XX This sequence is a mutant hcs peptide. It is a peptide of the
 CC invention, and has corticostatin or somatostatin activity. Antibodies
 CC recognising hcs-17 can be used to screen for a compound that modulates,
 CC i.e. an agonist or antagonist, the binding of hcs-17 to its receptor, and
 CC to assay for hcs-17, e.g. diagnosis. hcs-17, the DNA encoding it or a
 CC receptor agonist or antagonist can be used to treat and prevent
 CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
 CC gastric ulcers and dementia, regulate sleep and control growth disorders
 CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
 CC regulate hormone secretion and the digestive system (e.g. to treat
 CC diabetes), and as tumour multiplication or neural inhibitors.

XX Sequence 88 AA;

Query Match 81.2%; Score 450; DB 19; Length 88;
 Best Local Similarity 100.0%; Pred. No. 2.3e-42;
 Matches 88; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAPLEGGPTGRDSEHMOAGIRKSSLLTFLAMWEMTSQA 60
 Db 1 MPLSPGLLLLSGATATAPLEGGPTGRDSEHMOAGIRKSSLLTFLAMWEMTSQA 60

QY 61 SAGPLIGEAREVARROGAPPOOSARR 88
 Db 61 SAGPLIGEAREVARROGAPPOOSARR 88

RESULT 10
 AAM44043
 ID AAM44043 standard; peptide: 62 AA.

AC AAM44043;

DT 26-JUN-1998 (first entry)

DE hcs-62 peptide.

XX Corticostatin; somatostatin; hcs-62 peptide; hormone-producing tumour;
 KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
 KM digestive system regulation; neural inhibitor; therapy.

XX Synthetic.

PN W09746668-A1.

PD 11-DEC-1997.

PF 05-JUN-1997; 97WO-JP01911.

PR 15-OCT-1996; 96JP-0272422.

PR 07-JUN-1996; 96JP-0146052.

PR 19-SEP-1996; 96JP-0247710.

XX (TAKE) TAKEDA CHEM IND LTD.

PI Fukusumi S, Hinuma S, Kitada C;

DR WPI: 1998-042177/04.

DR N-PSDB; AAV02050, AAV02051.

XX Peptide having corticostatin or somatostatin activity - useful as
 PT anticancer and antitumor agent, and for control of dementia and
 PT growth abnormalities

PS Claim 7; Page 114; 174pp; Japanese.

XX This sequence represents the peptide hcs-62. It is a peptide of the
 CC invention, and has corticostatin or somatostatin activity. Antibodies
 CC recognising hcs-17 can be used to screen for a compound that modulates,
 CC i.e. an agonist or antagonist, the binding of hcs-17 to its receptor, and
 CC to assay for hcs-17, e.g. diagnosis. hcs-17, the DNA encoding it or a
 CC receptor agonist or antagonist can be used to treat and prevent
 CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
 CC gastric ulcers and dementia, regulate sleep and control growth disorders
 CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
 CC regulate hormone secretion and the digestive system (e.g. to treat
 CC diabetes), and as tumour multiplication or neural inhibitors.

XX Sequence 62 AA;

Query Match 61.4%; Score 340; DB 19; Length 62;
 Best Local Similarity 100.0%; Pred. No. 2.5e-30;
 Matches 62; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 SLLTFLAMWEMTSQASAGPLIGEAREVARROGAPPOOSARRDRMPCRNFFMKTFSS 103
 Db 1 SLLTFLAMWEMTSQASAGPLIGEAREVARROGAPPOOSARRDRMPCRNFFMKTFSS 60

QY 104 CK 105
 Db 61 CK 62

RESULT 11
 AAM42033
 ID AAM42033 standard; Protein; 112 AA.

AC AAM42033;

DT 28-MAY-1998 (first entry)

DB 69 SSTAEGGTPELSKRQERPPLOQPPHPRDKKPKCKNFEMKTFSSCK 112

RESULT 13

ID AAM42034 standard; Protein; 109 AA.

AC AAM42034;

DT 28-MAY-1998 (first entry)

DE Mouse preprocortistatin protein.

XX Mouse preprocortistatin; N-terminal signal peptide; procortistatin;
 KW cortistatin-29; cortistatin-14; agonist; antibody; inhibition; sleep;
 KM somatostatin; neuronal electrical activity; cerebral cortex; antagonist;
 XX acetylcholine; primer; PCR; immunoassay; hybridisation; amplification.

OS Mus sp.

XX Key Location/Qualifiers

FT Peptide 1..27 /note= "signal peptide"

FT Protein 28..109 /note= "mature peptide"

FT Cleavage-site 79..80 /note= "cleaves to give a putative 29-residue precursor"

FT Cleavage-site 94..95 /note= "cleaves to give rise to a putative 13 and 14 residue peptide"

FT W09743417-A1.

PD 20-NOV-1997.

XX 15-MAY-1997; 97WO-US08481.

XX 15-MAY-1996; 96US-0648322.

XX (SCRI) SCRIPPS RES INST.

XX De Lecea L, Henriksen SJ, Siglins GR, Sutcliffe JG;

XX WPI; 1998-008886/01.

XX N-PSDB; AAV09156.

XX New cortistatin peptide(s) - used to modulate sleep, detect mutation(s) and screen for drugs

XX Claim 1; Page 104; 128pp; English.

XX This amino acid sequence is the novel mouse preprocortistatin protein.

XX Cleavage at the N-terminal signal peptide site leads to the formation of procortistatin, which is processed at any of the tandem basic amino acid pairs Lys-Ser, or Lys-Lys to produce the mature cortistatin

XX proteins referred as mouse cortistatin-29, and cortistatin-14. The purified cortistatin, and its agonists, are used to induce sleep while

XX its receptor antagonists (particularly antibodies) is used to inhibit sleep. Although cortistatin is structurally similar to somatostatin,

XX it is able to depress neuronal electrical activity, induce low frequency waves in the cerebral cortex, antagonise acetylcholine and therefore

XX enhance slow-wave sleep. The antibodies, and oligonucleotide primers, are used in usual immunoassays and hybridisation/amplification assays to

XX detect or quantify cortistatin (including that administered therapeutically) or its nucleic acid. Oligonucleotides, e.g. antisense

XX molecules, are used in vivo to alter cortistatin gene expression.

XX Detection of a mutation in the cortistatin gene may provide diagnosis of sleep-related or neuronal depression-related disorders or diseases of

XX the brain.

XX Sequence 109 AA;

XX

Query Match 49.1%; Score 272; DB 19; Length 109;
 Best Local Similarity 55.8%; Pred. No. 1.7e-22;
 Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY

2 PLSGQLLLLSGATATAPLPLEGGPTGRDSEHNOEAAGIRKSSILTFLLAMFEMTSQAS 61

DB 12 PSARGLLL--WCVASALPLFESGPTGDS--VOEATEGR-SGLTFLLAMHBMASQAS 65

QY

62 AGPLIGEARARQEGAPPOQARDRMCRNFFMKTSSCK 105

DB

66 SSTPVGGTPELSKRSQERPPLOQPPHPRDKKPKCKNFEMKTFSSCK 109

RESULT 14

ID AAE21872 standard; Protein; 109 AA.

AC AAE21872;

DT 16-JUL-2002 (first entry)

DE Mouse preprocortistatin protein.

XX Mouse; cortistatin; sedative; neuropeptide; screening; therapeutic;
 KM sleep disorder; pharmaceutical compound; diagnosis.

OS Mus sp.

XX Key Location/Qualifiers

FT Peptide 1..25 /label= "signal_peptide"

FT Protein 26..109 /label= "Mature_cortistatin_protein"

FT Cleavage-site 79..80 /note= "Peptide formed by proteolytic cleavage"

FT Region 81..93 /note= "Peptide formed by proteolytic cleavage"

FT Cleavage-site 94..95 /note= "Peptide formed by proteolytic cleavage"

FT Region 96..109

XX US2002013456-A1.

XX 31-JAN-2002.

XX 18-JAN-2001; 2001US-0766396.

XX 15-MAY-1997; 97US-0857389.

XX 15-MAY-1996; 96US-0648322.

XX (SCRI) SCRIPPS RES INST.

XX Sutcliffe JG, Lecea LD, Henriksen SJ, Siglins GR;

XX WPI; 2002-328475/36.

XX N-PSDB; AAD34525.

XX New mammalian cortistatin useful in screening and diagnostic methods, and in therapeutic methods related in modulating sleep and sleeping disorders

XX Claim 2; Fig 3; 50pp; English.

XX The invention relates to a substantially isolated and purified mammalian cortistatin. The cortistatin nucleic acids, proteins, polypeptides

XX and antibodies are useful in screening and diagnostic methods, and in therapeutic methods related to modulation of sleep and sleeping

XX disorders. Cortistatin proteins may be used as immunogen to produce antibodies immunoreactive with cortistatin, in vitro ligand binding

XX specificities, to characterise candidate pharmaceutical compounds useful for modulating cortistatin function, and as therapeutic agents for

XX effecting cortistatin functions. The present sequence is mouse preprocortistatin protein.

XX Sequence 109 AA;

Query Match 49.1%; Score 272; DB 23; Length 109;
Best Local Similarity 55.8%; Pred. No. 1.7e-22;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSPGILLLLSGATATAPLEGGTGBDSEHMOEAAGIRKSSLTFLAMFWETSQAS 61
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||
DB 12 PSAPGILLLL--WGVAAALPLESGPTGDS--VDATGCR--SGLTFLAMHWEVASQAS 65
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

QY 62 AGPLIGEAREVAREGAPPOASARDMPCRNFEWKTFSCK 105
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||
DB 66 SSTPVGCGTGTGLSKSGERPEPQPPHLDKKPCCKNFEWKTFSCK 109
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

RESULT 15

AAW42035
ID AAW42035 standard; Protein; 85 AA.

XX AAW42035;

XX DT 28-MAY-1998 (first entry)

XX DE Rat pro cortistatin protein.

XX KM Rat pro cortistatin; prepro cortistatin; cortistatin-29; cortistatin-14;
agonist; antibody; inhibition; sleep; somatostatin; acetylcholine;
KW neuronal electrical activity; cerebral cortex; antagonist; primer; PCR;
KW immunosassay; hybridisation; amplification.

XX OS Rattus sp.

XX PN WO9743417-A1.

XX PD 20-NOV-1997.

XX PF 15-MAY-1997; 97WO-US08481.

XX PR 15-MAY-1996; 96US-0648322.

XX PA (SCR1) SCRIPPS RES INST.

XX PI De Lecea L, Henriksen SJ, Siggins GR, Sutcliffe JG;

XX DR WPI; 1998-008886/01.

XX PS New cortistatin peptide(s) - used to modulate sleep, detect
mutation(s) and screen for drugs

XX Claim 1; Page 105; 128pp; English.

XX This amino acid sequence is the novel rat pro cortistatin protein, which
CC is cleaved to produce three peptides (AAW42036, AAW42037, AAW42038).
CC One of the peptides (AAW42038), designated as rat cortistatin-14, is
CC highly conserved among species e.g. mouse and human. The purified
CC cortistatin, and its agonists, are used to induce sleep while its
CC receptor antagonists (particularly antibodies) is used to inhibit sleep.
CC Although cortistatin is structurally similar to somatostatin, it is able
CC to depress neuronal electrical activity, induce low frequency waves in
CC the cerebral cortex, antagonise acetylcholine and therefore enhance
CC slow-wave sleep. The antibodies, and oligonucleotide primers, are used
CC in usual immunoassays and hybridisation/amplification assays to detect or
CC quantify cortistatin (including that administered therapeutically) or its
CC nucleic acid. Oligonucleotides, e.g. antisense molecules, are used in
CC vivo to alter cortistatin gene expression. Detection of a mutation in
CC the cortistatin gene may provide diagnosis of sleep-related or neuronal
CC depression-related disorders or diseases of the brain.

XX Sequence 85 AA;

Query Match

Best Local Similarity 48.2%; Score 267; DB 19; Length 85;
57.5%; Pred. No. 4.5e-22;

Matches 50; Conservative 12; Mismatches 23; Indels 2; Gaps 1;

QY 19 AALPLEGGTGRDSEHMOEAAGIRKSSLTFLAMFWETSQASAGPLIGEAREVARE 78
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

DB 1 SALPLESGPTGDS--VDATGCRGTGLTFLAMHWEVASQASSTAFEGTPELSKROE 58
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

QY 79 GAPPOASARDMPCRNFEWKTFSCK 105
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

DB 59 RPPLOQPPHRDKKPCCKNFEWKTFSCK 85
|:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:||||| |:|||||

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